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VOYAGE OF H.M.S. CHALLENGER.

ZOOLOGY—VOL. XXX.

PLATES.

THE
VILLAGE OF H.M.'S CHALMINGERS
SOPHOMORE-YEAR XXX
BY
J. B. WILSON

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Great Britain. Challenger Office.

RE P O R T

ON THE

SCIENTIFIC RESULTS

OF THE

VOYAGE OF H.M.S. CHALLENGER

DURING THE YEARS 1873-76

UNDER THE COMMAND OF

CAPTAIN GEORGE S. NARES, R.N., F.R.S.

AND THE LATE

CAPTAIN FRANK TOURLE THOMSON, R.N.

PREPARED UNDER THE SUPERINTENDENCE OF

THE LATE

Sir C. WYVILLE THOMSON, Knt., F.R.S., &c.

REGIUS PROFESSOR OF NATURAL HISTORY IN THE UNIVERSITY OF EDINBURGH
DIRECTOR OF THE CIVILIAN SCIENTIFIC STAFF ON BOARD

AND NOW OF

JOHN MURRAY, LL.D., PH.D., &c.

ONE OF THE NATURALISTS OF THE EXPEDITION



ZOOLOGY—VOL. XXX.

PLATES

Published by Order of Her Majesty's Government

PRINTED FOR HER MAJESTY'S STATIONERY OFFICE

AND SOLD BY

LONDON:—EYRE & SPOTTISWOODE, EAST HARDING STREET, FETTER LANE

EDINBURGH:—ADAM & CHARLES BLACK

DUBLIN:—HODGES, FIGGIS, & CO.

1889

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BALLANTYNE, HANSON AND CO., EDINBURGH AND LONDON,
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CONTENTS.

REPORT on the ASTEROIDEA collected by H.M.S. CHALLENGER during the years
1873-1876.

By W. PERCY SLADEN, F.L.S., &c.

(*The Manuscript was received in Instalments between 15th March 1886
and 21st January 1889.*)

EDITORIAL NOTE.

THE collection of ASTEROIDEA is one of the most important made during the voyage of the Challenger. The late Sir C. Wyville Thomson paid considerable attention to these organisms, and at one time had the intention of describing the new species discovered during the Expedition; with this end in view, indeed, he had a few of the specimens figured and lithographed.

Eventually, however, the whole collections were handed over to Mr. W. Percy Sladen for examination and description. The result of Mr. Sladen's work, extending over many years, is now presented in this magnificent Report, which forms Part LI. and Volume XXX. of the Zoological series of Reports, the text and plates being bound up in separate parts.

Not only on account of the large number of forms, but also on account of their representative character, the Challenger collection is unquestionably the most important contribution to this group of animals that has ever been made.

In the Report, supplementary to the treatment of the Challenger material, a compact account of the whole group has been aimed at. Thus (1) under each family an account of all the genera included therein, whether Challenger or not, has been given, and where necessary the grounds on which the classification has been adopted are discussed; (2) under each genus there is a statement of all the known species which are recognised as belonging to that genus, with an account of their geographical distribution: this presents a compact idea of the composition and distribution of each genus; (3) a complete list of all the known species of

THE VOYAGE OF H.M.S. CHALLENGER.

recent Asteroidea, with their geographical and bathymetrical distribution, and a full account of all synonyms and changes of name are given; every known starfish is believed to be included, and the recognition of "good species" and "synonyms" is based on personal observation (except in the case of some American types and a few recently described from the French dredgings).

The Report may be considered a monograph on the group, though of course it need hardly be said that previously described and recognised species are not re-described. An entirely new classification of the Asteroidea has been given—it was very unsatisfactory and quite unworkable previously.

All naturalists who appreciate careful and accurate work will join with me in congratulating Mr. Sladen on the completion of his valuable memoir, which extends to 935 pages, and is illustrated by 118 lithographic plates and a map.

JOHN MURRAY.

CHALLENGER OFFICE, 32 QUEEN STREET,
EDINBURGH, *January 23, 1889.*

PLATE I.

(ZOOLOGICAL EXP.—PART LI.—1888.)—A

PLATE I.

	Page
Figs. 1, 2. <i>PARARCHASTER SPINOSISSIMUS</i> , n. sp.	12
Fig. 1. Abactinal aspect; magnified 2 diameters.	
Fig. 2. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. IV. figs. 1, 2.]	
Figs. 3, 4. <i>PARARCHASTER PEDICIFER</i> , n. sp.	15
Fig. 3. Abactinal aspect; natural size.	
Fig. 4. Actinal aspect; natural size.	
[For magnified details of this species see Pl. IV. figs. 3, 4.]	
Figs. 5, 6. <i>PARARCHASTER ARMATUS</i> , n. sp.	19
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. IV. figs. 5, 6.]	

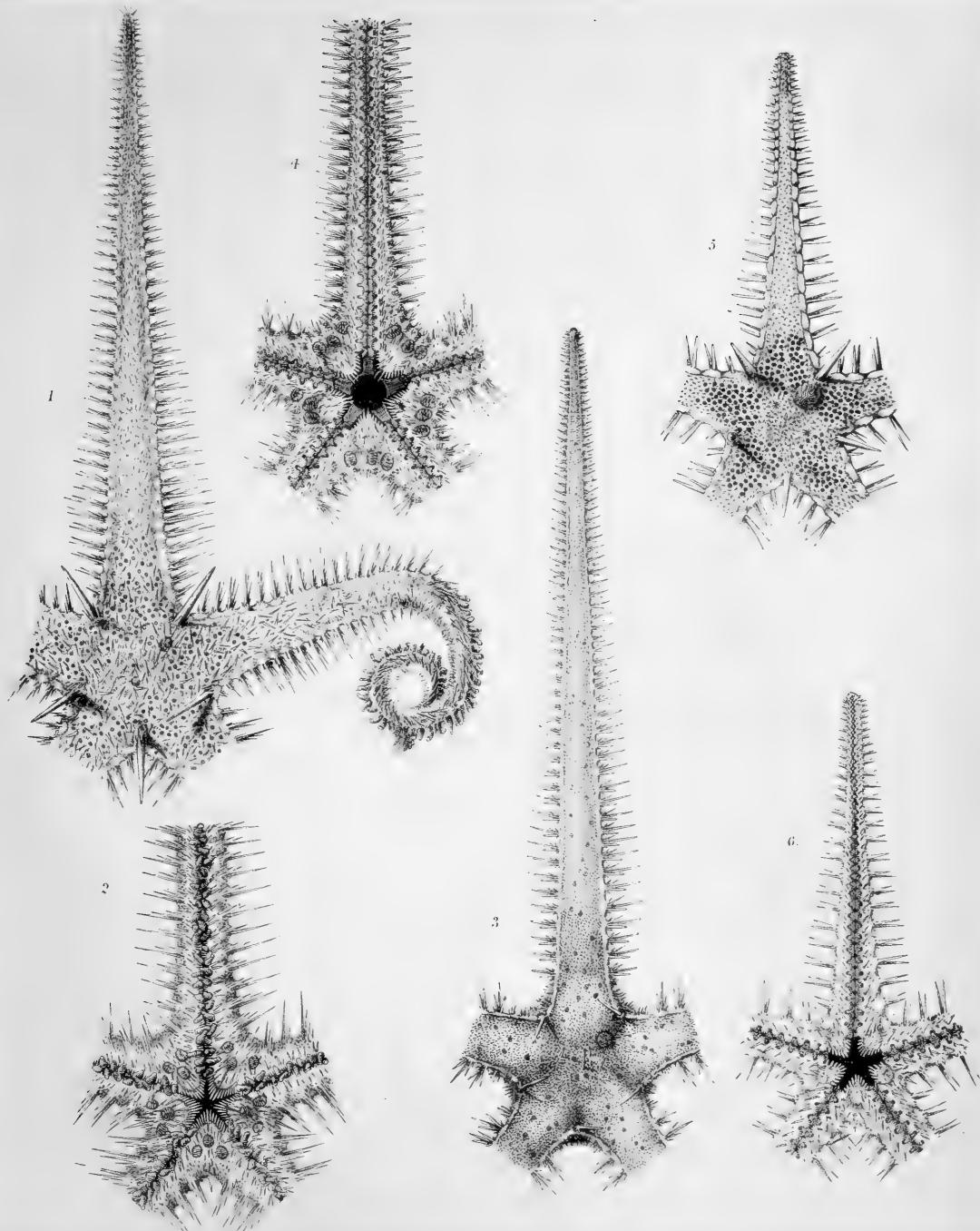


PLATE II.

PLATE II.

	Page
Figs. 1, 2. <i>PARARCHASTER SEMISQUAMATUS</i> , n. sp.	7
Fig. 1. Abactinal aspect; natural size.	
Fig. 2. Actinal aspect; natural size.	
[For magnified details of this species see Pl. IV. figs. 7, 8.]	
Figs. 3, 4. <i>DYTASTER EXILIS</i> , var. <i>GRACILIS</i> , nov.	68
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. IV. figs. 9, 10.]	

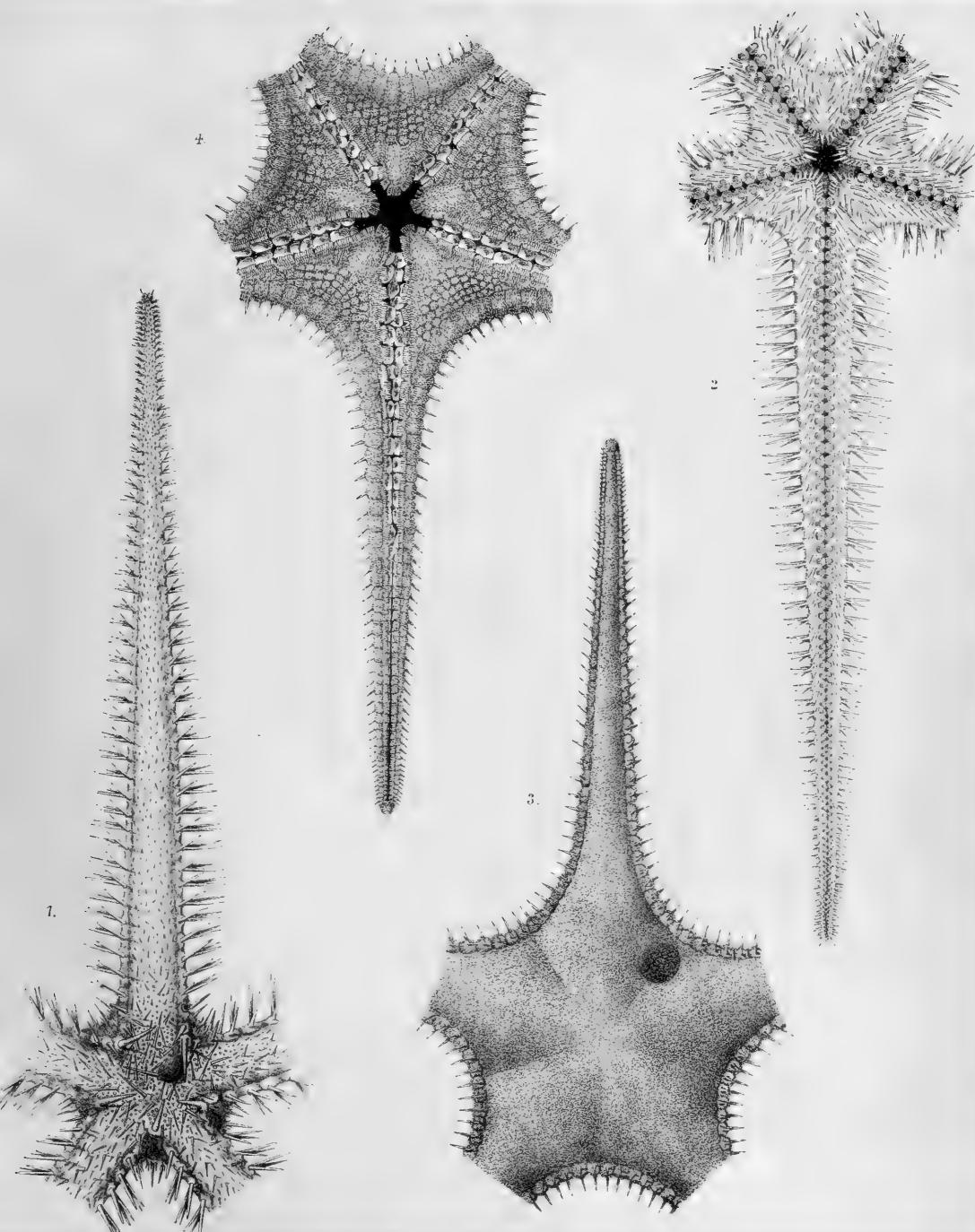


PLATE III.

(ZOOLOGICAL EXP.—PART LI.—1888.)—B

PLATE III.

	Page
Figs. 1, 2. <i>DYTASTER NOBILIS</i> , n. sp.	73

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

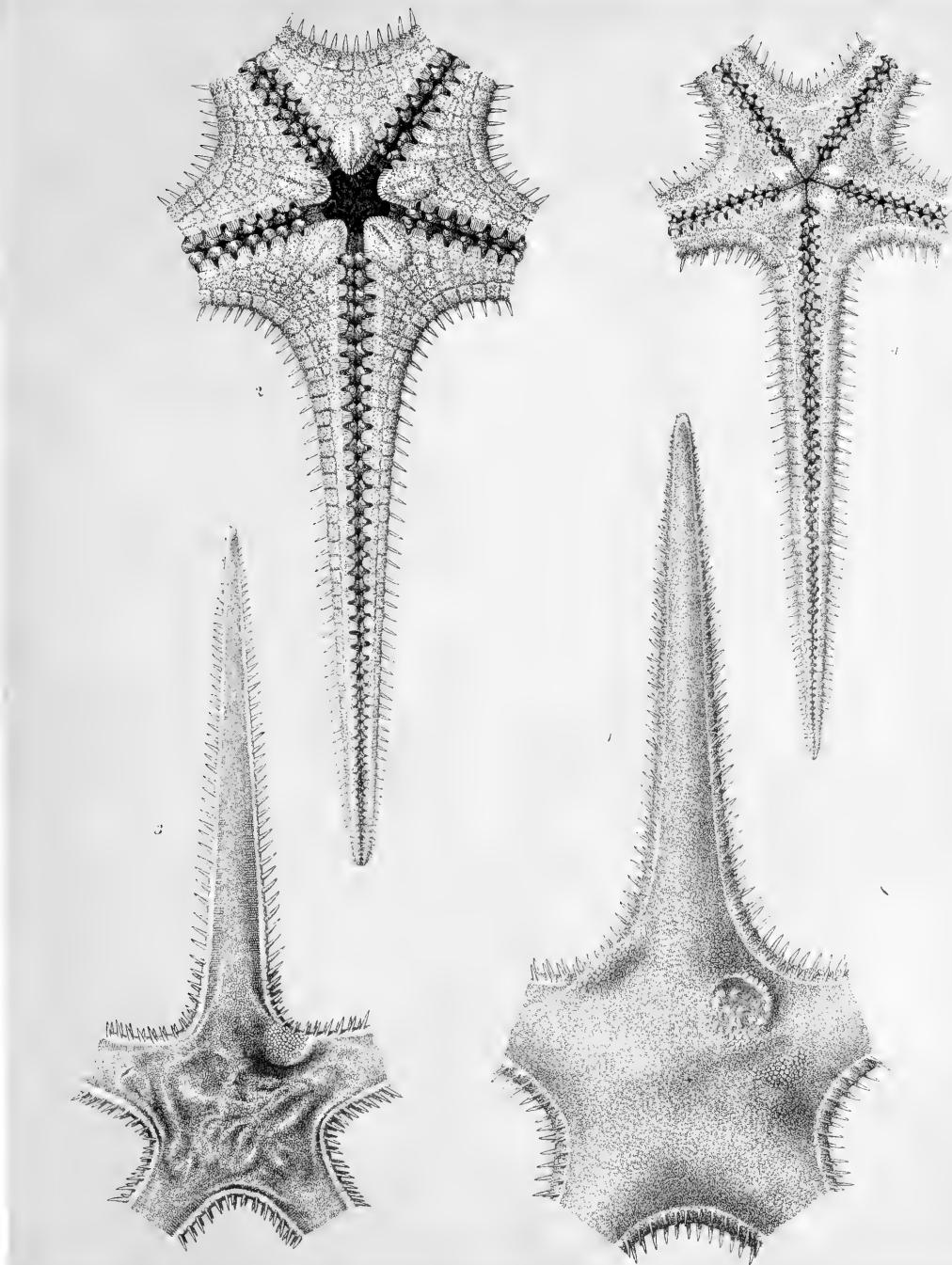
[For magnified details of this species see Pl. XXXII. figs. 3, 4.]

Figs. 3, 4. <i>DYTASTER MADREPORIFER</i> , n. sp.	70
---	----

Fig. 3. Abactinal aspect; natural size.

Fig. 4. Actinal aspect; natural size.

[For magnified details of this species see Pl. XXXII. figs. 5, 6.]



W.H.Crowther del. Holme lith.

1-2. *DYTASTER NOBILIS*, n. sp.

3-4. *DYTASTER MADREPORIFER*, n. sp.

PLATE IV.

PLATE IV.

	Page
Figs. 1, 2. <i>PARARCHASTER SPINOSISSIMUS</i> , n. sp.	12
Fig. 1. Adambulacral and infero-marginal plates; magnified 10 diameters.	
Fig. 2. A portion of the abactinal surface, showing the armature of the abactinal plates, and the papulae; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. I. figs. 1, 2.]	
Figs. 3, 4. <i>PARARCHASTER PEDICIFER</i> , n. sp.	15
Fig. 3. Adambulacral and infero-marginal plates; magnified 5 diameters.	
Fig. 4. A portion of the abactinal surface; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. I. figs. 3, 4.]	
Figs. 5, 6. <i>PARARCHASTER ARMATUS</i> , n. sp.	19
Fig. 5. Adambulacral and infero-marginal plates; magnified 15 diameters.	
Fig. 6. A portion of the abactinal surface, showing the spinelets on the abactinal plates, and the papulae; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. I. figs. 5, 6.]	
Figs. 7, 8. <i>PARARCHASTER SEMISQUAMATUS</i> , n. sp.	7
Fig. 7. Adambulacral and infero-marginal plates; magnified 5 diameters.	
Fig. 8. A portion of the abactinal surface; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. II. figs. 1, 2.]	
Figs. 9, 10. <i>DYTASTER EXILIS</i> , n. sp.	65
Fig. 9. Adambulacral and infero-marginal plates; magnified 15 diameters.	
Fig. 10. A portion of the abactinal surface; magnified 30 diameters.	
[For macroscopic figures of this species see Pl. II. figs. 3, 4.]	
Figs. 11, 12. <i>DYTASTER SPINOSUS</i> , n. sp.	63
Fig. 11. Adambulacral and infero-marginal plates; magnified 5 diameters.	
Fig. 12. A portion of the abactinal surface; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. V. figs. 1, 2.]	

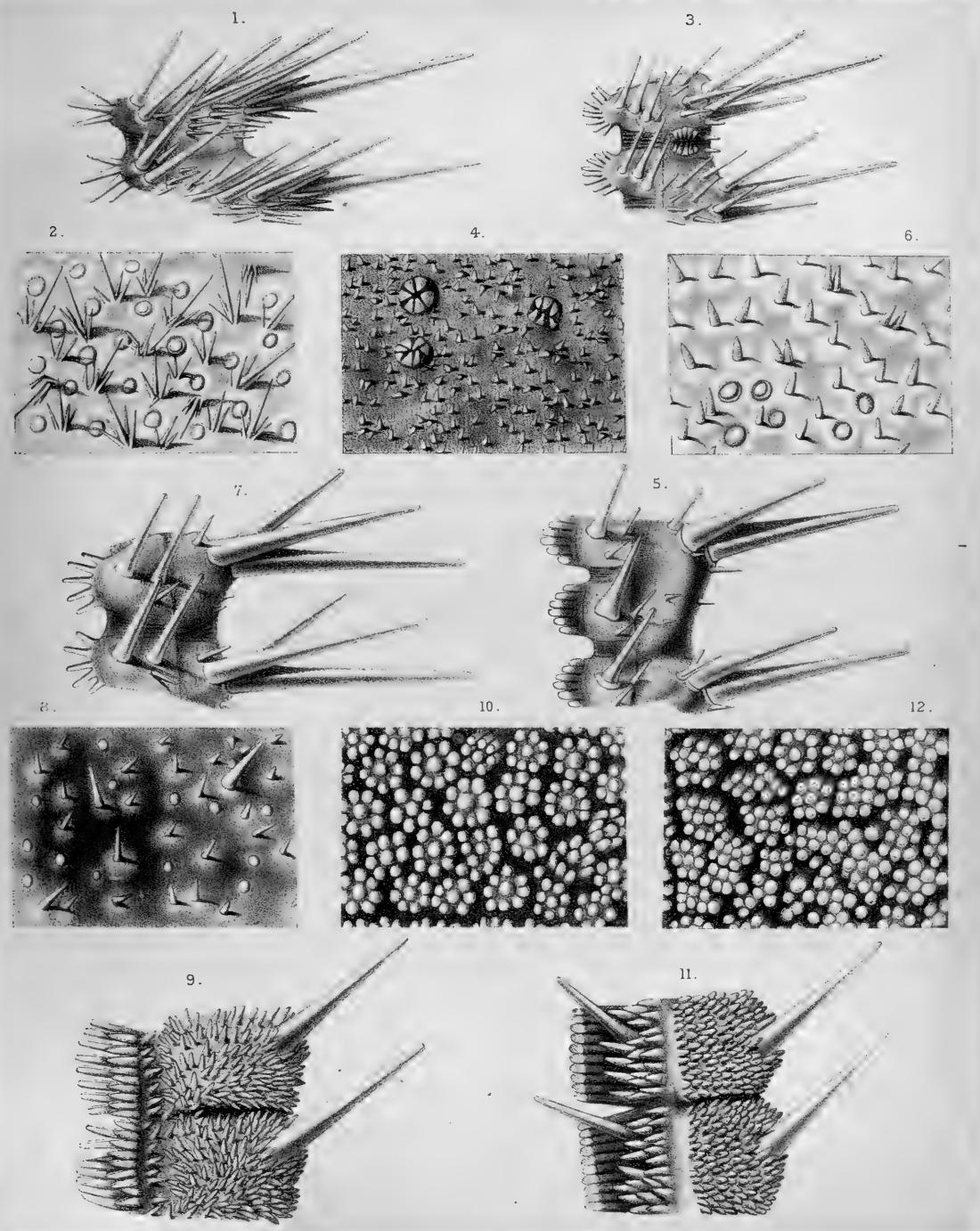
1-2. *PARARCHASTER SPINOSISSIMUS*, n. sp.3-4. *PARARCHASTER PEDICIFER*, n. sp.5-6. *PARARCHASTER ARMATUS*, n. sp.7-8. *PARARCHASTER SEMISQUAMATUS*, n. sp.9-10. *DYTASTER EXILIS*, n. sp.11-12. *DYTASTER SPINOSUS*, n. sp.

PLATE V.

(ZOOLOGICAL CHALL. EXP.—PART LI.—1888)—C

PLATE V.

Page
63

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

[For magnified details of this species see Pl. IV. figs. 11, 12.]

Figs. 3, 4. PONTASTER SUBTUBERCULATUS, n. sp. 58

Fig. 3. Abactinal aspect; magnified 3 diameters.

Fig. 4. Actinal aspect; magnified 3 diameters.

[For magnified details of this species see Pl. XIII. figs. 7, 8.]

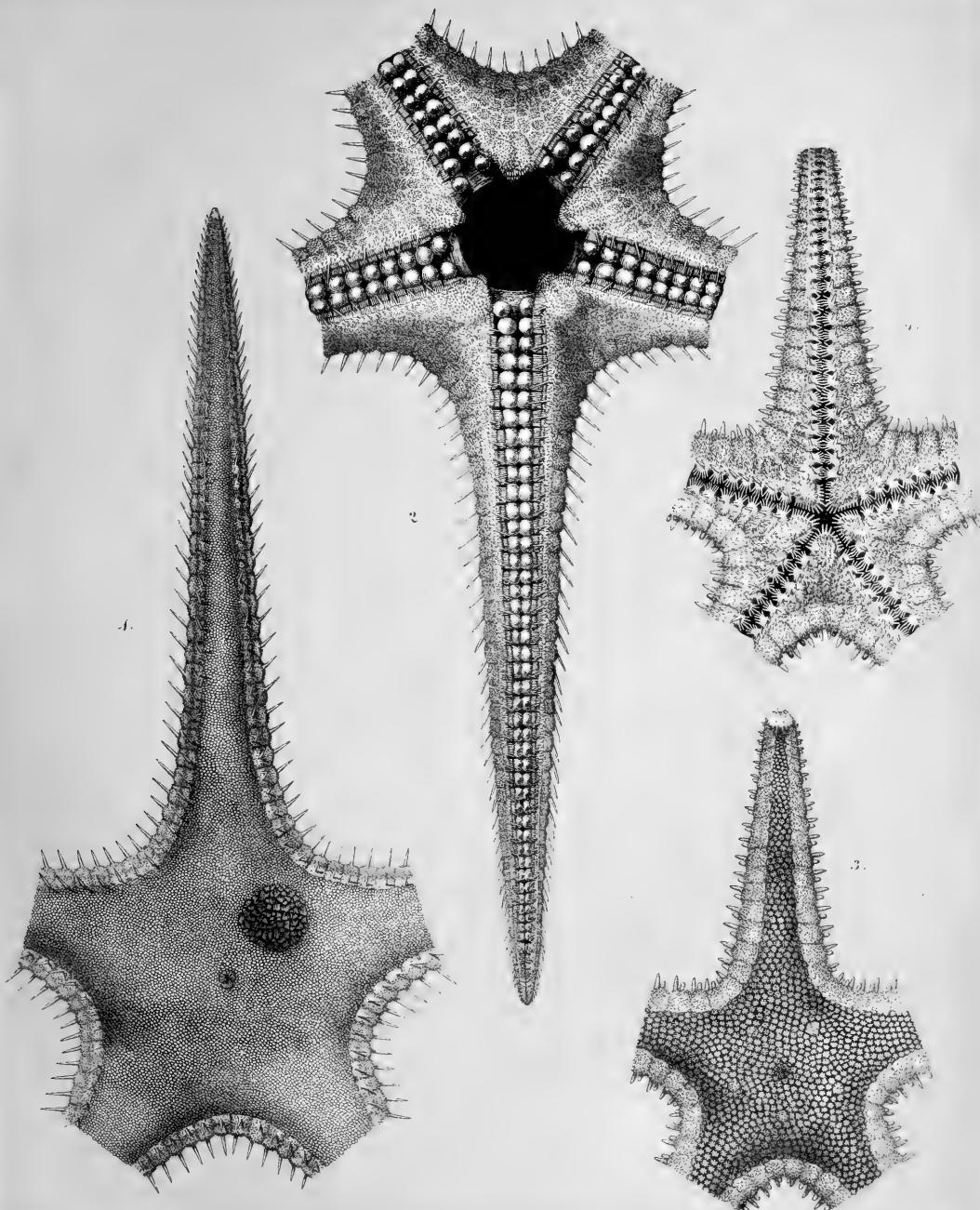


PLATE VI.

PLATE VI.

	Page
Figs. 1, 2. <i>PONTASTER MIMICUS</i> , n. sp.	48
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. VII. figs. 5, 6.]	
Figs. 3, 4. <i>PONTASTER LIMBATUS</i> , n. sp.	35
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. VII. figs 1, 2.]	
Figs. 5, 6. <i>PONTASTER PRISTINUS</i> , n. sp.	50
Fig. 5. Abactinal aspect; magnified 3 diameters.	
Fig. 6. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. VII. figs. 7, 8.]	
Fig. 7. <i>PONTASTER TENUISPINUS</i> , var. <i>PLATYNOTA</i> , nov.	29
Fig. 7. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this variety see Pl. VII. figs. 3, 4.]	

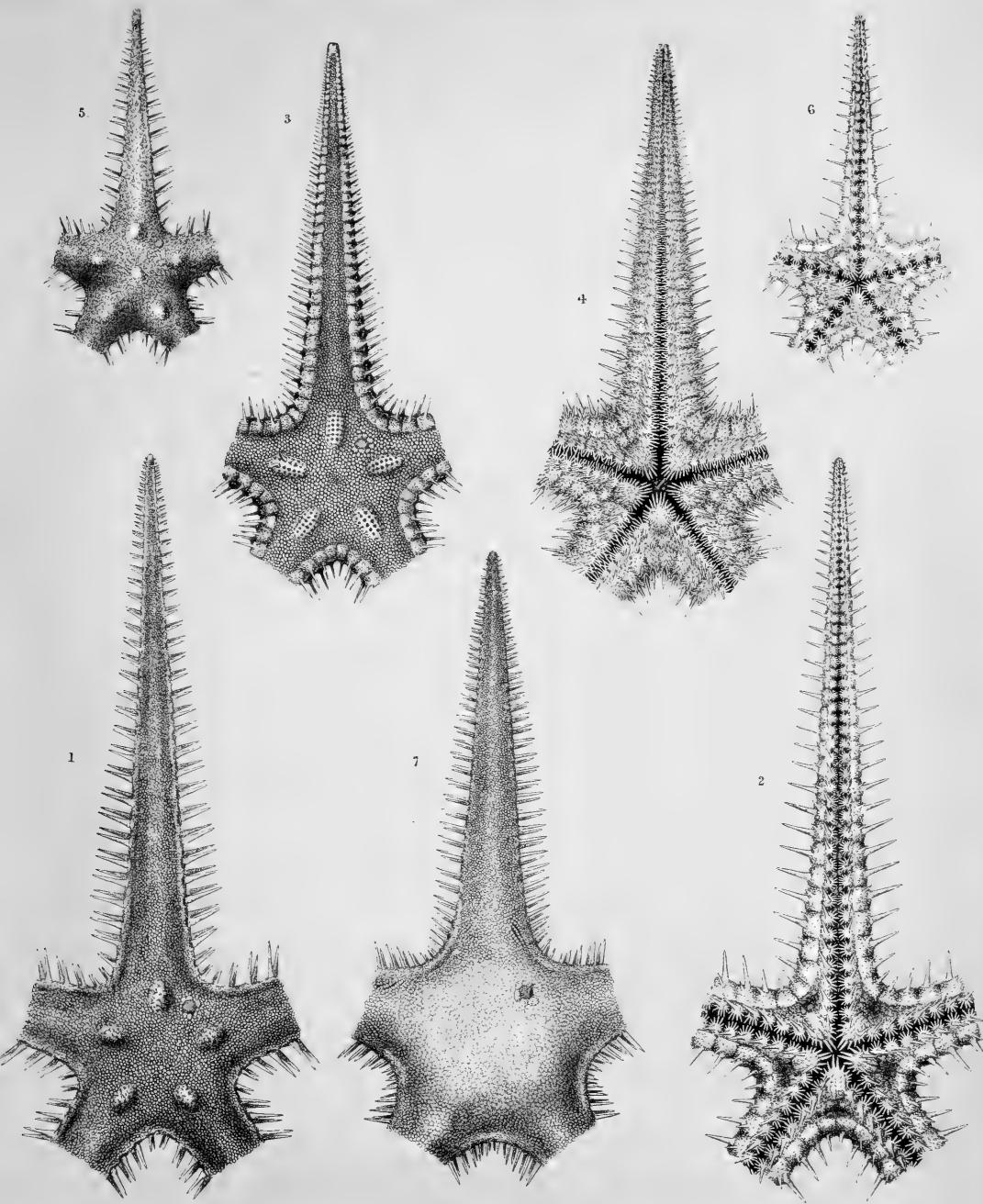
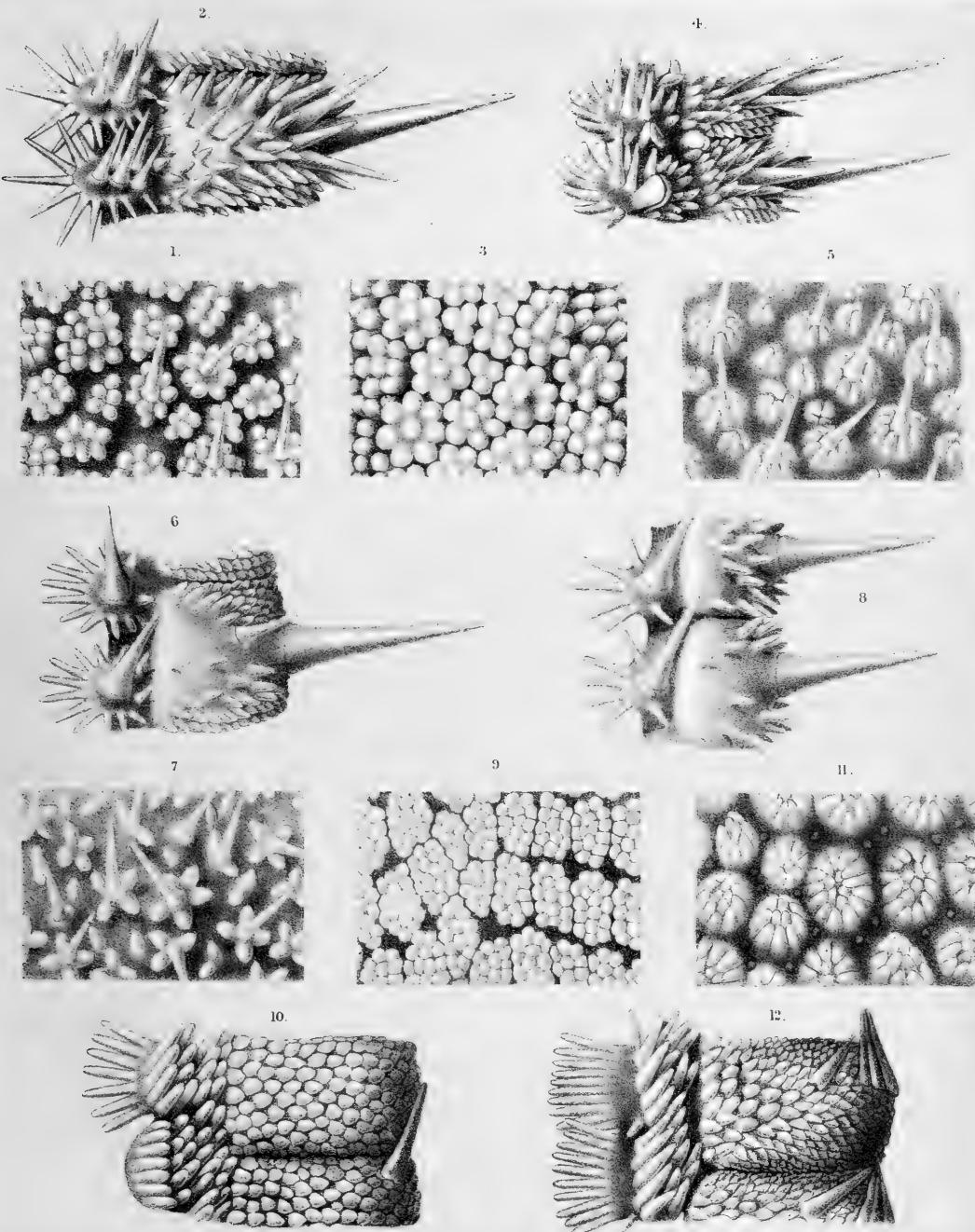


PLATE VII.

PLATE VII.

	Page
Figs. 1, 2. <i>PONTASTER LIMBATUS</i> , n. sp.	35
Fig. 1. A portion of the abactinal surface ; magnified 25 diameters.	
Fig. 2. Adambulacral and infero-marginal plates ; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. VI. figs. 3, 4.]	
Figs. 3, 4. <i>PONTASTER TENUISPINUS</i> , var. <i>PLATYNOTA</i> , nov.	29
Fig. 3. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 4. Adambulacral and infero-marginal plates ; magnified 10 diameters.	
[For a macroscopic figure of this variety see Pl. VI. fig. 7.]	
Figs. 5, 6. <i>PONTASTER MIMICUS</i> , n. sp.	48
Fig. 5. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 6. Adambulacral and infero-marginal plates ; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. VI. figs. 1, 2.]	
Figs. 7, 8. <i>PONTASTER PRISTINUS</i> , n. sp.	50
Fig. 7. A portion of the abactinal surface ; magnified 30 diameters.	
Fig. 8. Adambulacral and infero-marginal plates ; magnified 25 diameters.	
[For macroscopic figures of this species see Pl. VI. figs. 5, 6.]	
Figs. 9, 10. <i>PSILASTER CASSIOPE</i> , n. sp.	228
Fig. 9. A portion of the abactinal surface ; magnified 16 diameters.	
Fig. 10. Adambulacral and infero-marginal plates ; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XLI. figs. 1, 2.]	
Figs. 11, 12. <i>PSILASTER PATAGIATUS</i> , n. sp.	232
Fig. 11. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 12. Adambulacral and infero-marginal plates ; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. XLI. figs. 3, 4.]	



1-2. *PONTASTER LIMBATUS*, n.sp.
 5-6. *PONTASTER MIMICUS*, n.sp.
 9-10. *PSILASTER CASSIOPE*, n.sp.

3-4. *PONTASTER TENUISPINUS*, var. *PLATYNOTA*, nov.
 7-8. *PONTASTER PRISTINUS*, n.sp.
 11-12. *PSILASTER PATAGIATUS*, n.sp.

PLATE VIII.

PLATE VIII.

	Page
Figs. 1, 2. <i>PONTASTER HEBITUS</i> , n. sp.	33
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XII. figs. 1, 2.]	
Figs. 3, 4. <i>PONTASTER FORCIPATUS</i> , n. sp.	43
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XII. figs. 3, 4.]	
Figs. 5, 6. <i>PONTASTER VENUSTUS</i> , n. sp.	52
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XII. figs. 5, 6.]	

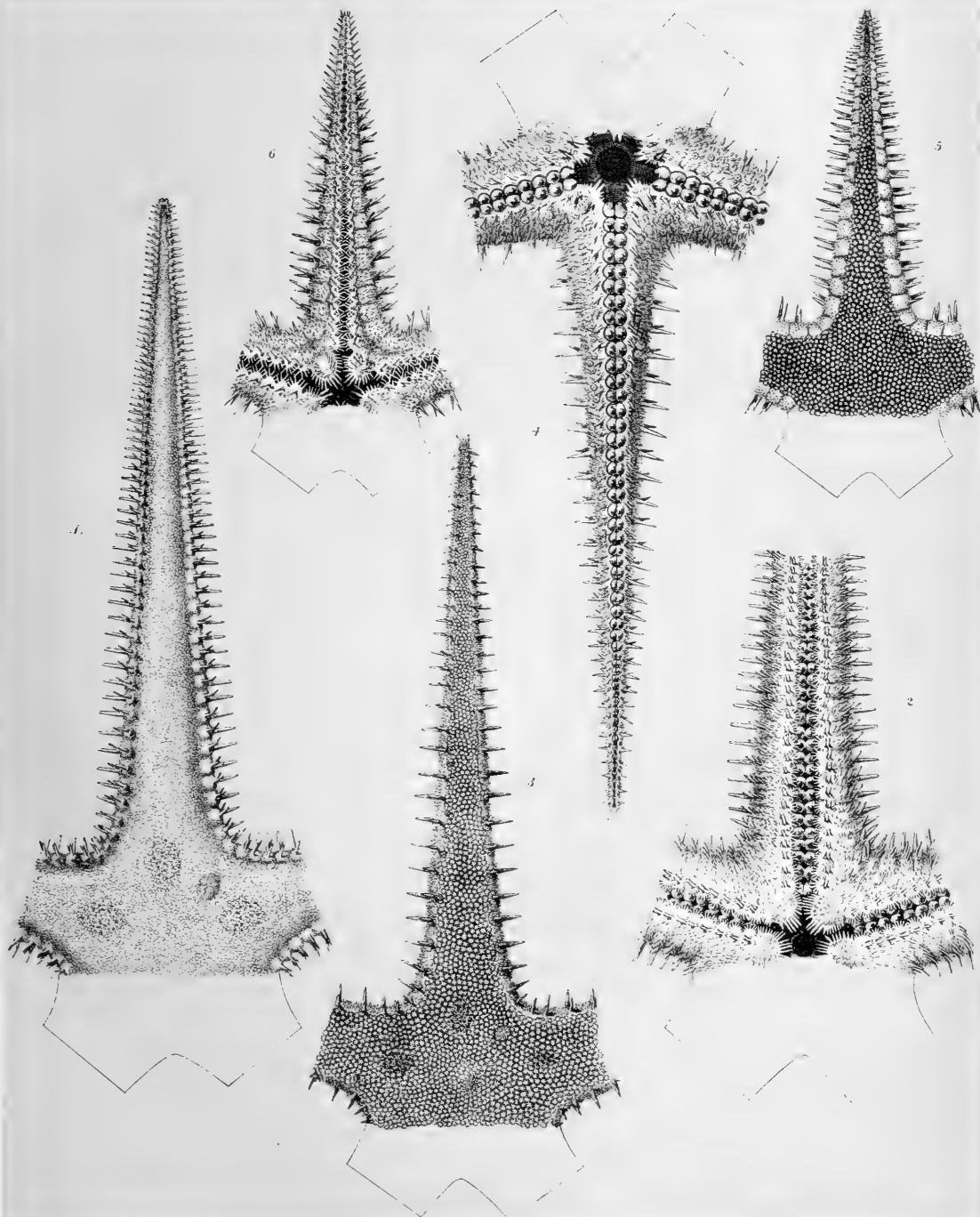


PLATE IX.

(ZOOLOGICAL EXP.—PART LI.—1888.)—E

PLATE IX.

	Page
Figs. 1, 2. <i>PONTASTER OXYACANTHUS</i> , n. sp.	38

Fig. 1. Abactinal aspect; magnified 2 diameters.

Fig. 2. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. XII. figs. 7, 8.]

Figs. 3, 4. <i>PONTASTER TRULLIPES</i> , n. sp.	55
---	----

Fig. 3. Abactinal aspect; magnified 3 diameters.

Fig. 4. Actinal aspect; magnified 3 diameters.

[For magnified details of this species see Pl. XII. figs. 9, 10.]

Figs. 5, 6. <i>PONTASTER TERES</i> , n. sp.	41
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Fig. 5. Abactinal aspect; magnified 2 diameters.

Fig. 6. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. XII. figs. 11, 12.]

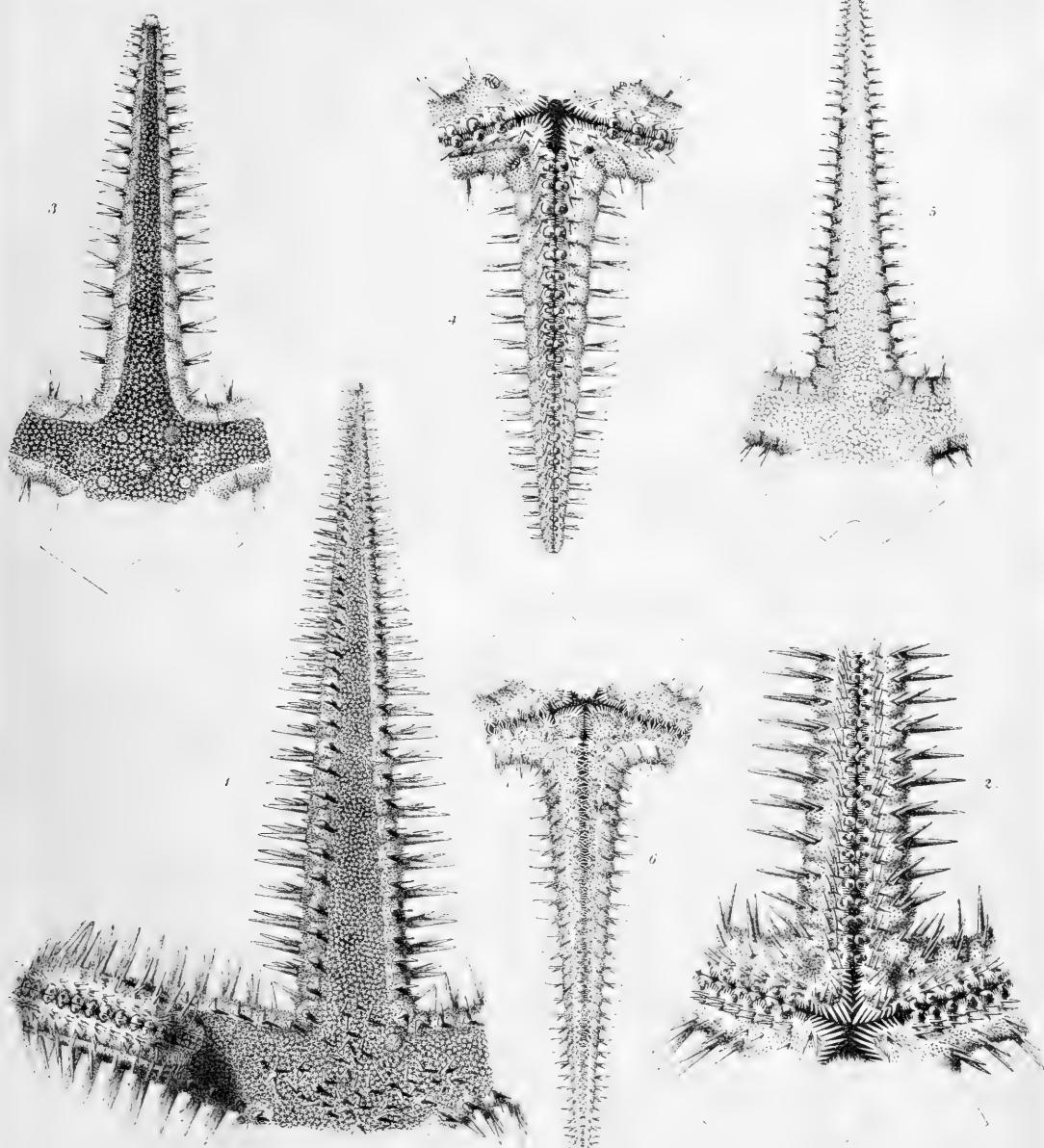


PLATE X.

PLATE X.

	Page
Figs. 1, 2. <i>PONTASTER PLANETA</i> , n. sp.	30

Fig. 1. Abactinal aspect; magnified 3 diameters.

Fig. 2. Actinal aspect; magnified 3 diameters.

[For magnified details of this species see Pl. XIII. figs. 1, 2.]

Figs. 3, 4. <i>DYTASTER BISERIALIS</i> , n. sp.	77
---	----

Fig. 3. Abactinal aspect; magnified 2 diameters.

Fig. 4. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. XIII. figs. 3, 4.]

Figs. 5, 6. <i>DYTASTER INERMIS</i> , n. sp.	79
--	----

Fig. 5. Abactinal aspect; magnified 4 diameters.

Fig. 6. Actinal aspect; magnified 4 diameters.

[For magnified details of this species see Pl. XIII. figs. 5, 6.]

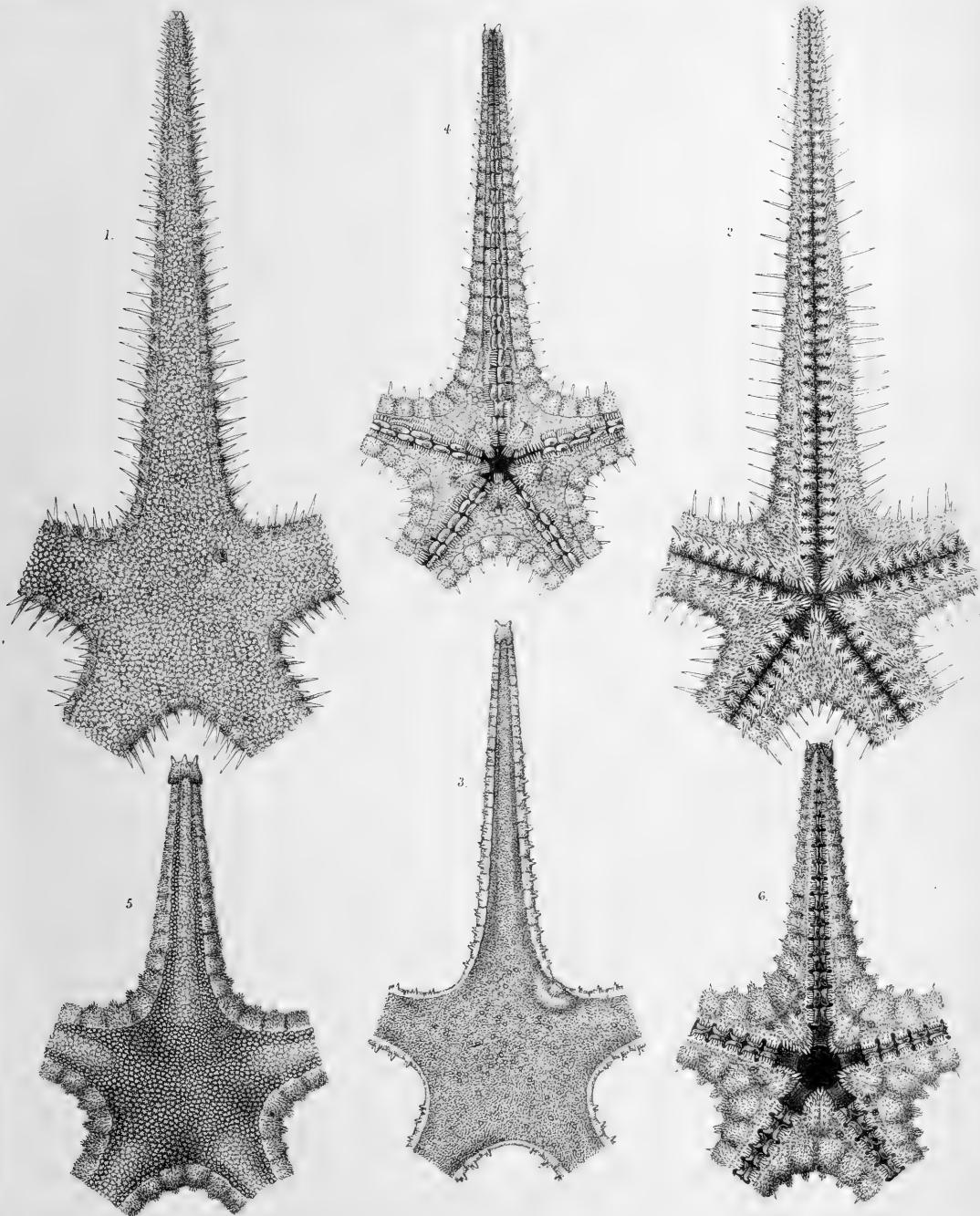


PLATE XI.

(ZOOLOGICAL EXP.—PART LI.—1888.)—F

PLATE XI.

	Page
Figs. 1-4. PLUTONASTER BIFRONS, Wyville Thomson, sp.	84

Fig. 1. Abactinal aspect; magnified 2 diameters.

Fig. 2. Actinal aspect; magnified 2 diameters.

Fig. 3. A young example, abactinal aspect; magnified 6 diameters.

Fig. 4. A young example, actinal aspect; magnified 6 diameters.

[For magnified details of this species see Pl. XIII. figs. 9, 10.]

Figs. 5, 6. PLUTONASTER AMBIGUUS, n. sp.	95
--	----

Fig. 5. Abactinal aspect; magnified 3 diameters.

Fig. 6. Actinal aspect; magnified 3 diameters.

[For magnified details of this species see Pl. XIII. figs. 11, 12.]

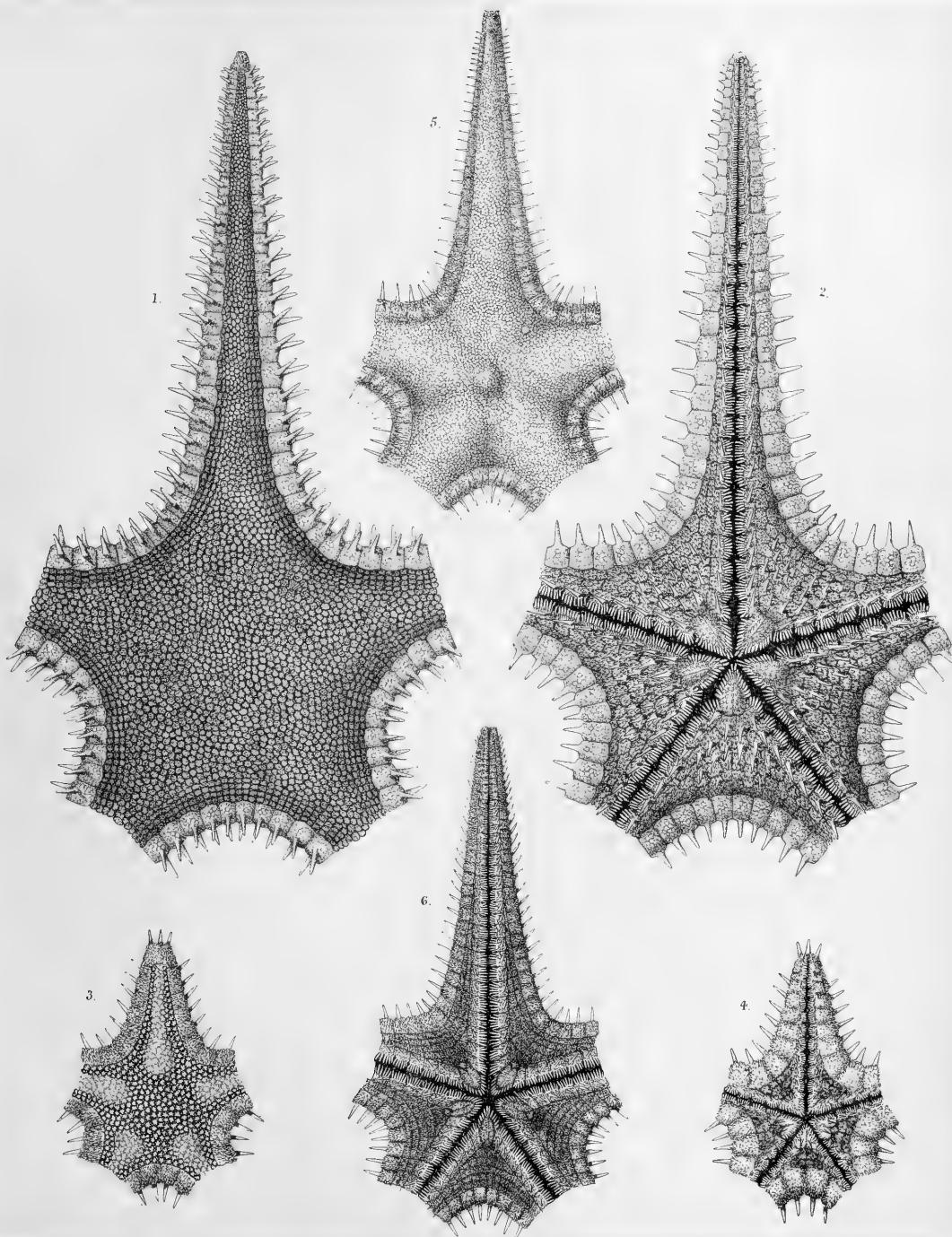
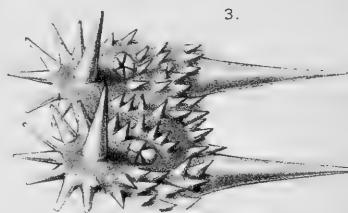
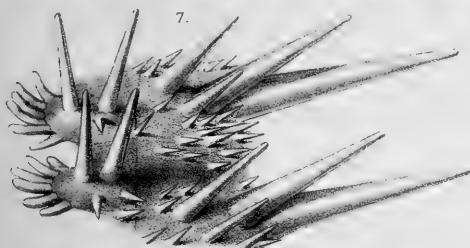
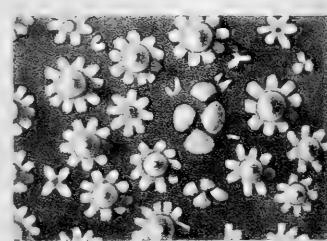
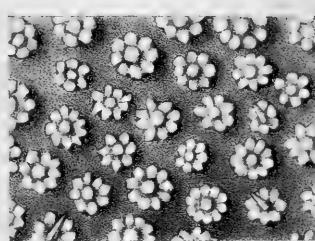
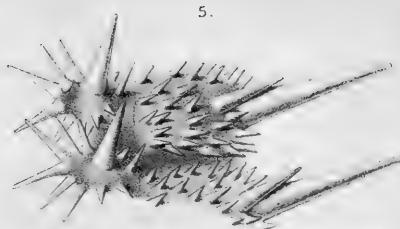
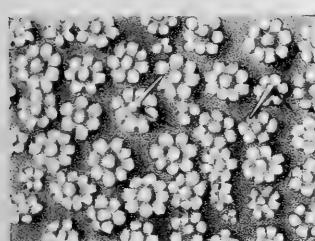
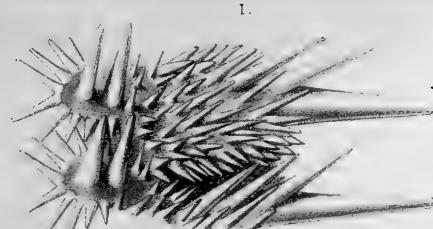


PLATE XII.

PLATE XII.

	Page
Figs. 1, 2. <i>PONTASTER HEBITUS</i> , n. sp.	33
Fig. 1. Adambulacral and infero-marginal plates; magnified 8 diameters.	
Fig. 2. A portion of the abactinal surface; magnified 25 diameters.	
[For macroscopic figures of this species see Pl. VIII. figs. 1, 2.]	
Figs. 3, 4. <i>PONTASTER FORCIPATUS</i> , n. sp.	43
Fig. 3. Adambulacral and infero-marginal plates; magnified 10 diameters.	
Fig. 4. A portion of the abactinal surface; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. VIII. figs. 3, 4.]	
Figs. 5, 6. <i>PONTASTER VENUSTUS</i> , n. sp.	52
Fig. 5. Adambulacral and infero-marginal plates; magnified 12 diameters.	
Fig. 6. A portion of the abactinal surface; magnified 18 diameters.	
[For macroscopic figures of this species see Pl. VIII. figs. 5, 6.]	
Figs. 7, 8. <i>PONTASTER OXYACANTHUS</i> , n. sp.	58
Fig. 7. Adambulacral and infero-marginal plates; magnified 8 diameters.	
Fig. 8. A portion of the abactinal surface; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. IX. figs. 1, 2.]	
Figs. 9, 10. <i>PONTASTER TRULLIPES</i> , n. sp.	55
Fig. 9. Adambulacral and infero-marginal plates; magnified 20 diameters.	
Fig. 10. A portion of the abactinal surface; magnified 25 diameters.	
[For macroscopic figures of this species see Pl. IX. figs. 3, 4.]	
Figs. 11, 12. <i>PONTASTER TERES</i> , n. sp.	41
Fig. 11. Adambulacral and infero-marginal plates; magnified 15 diameters.	
Fig. 12. A portion of the abactinal surface; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. IX. figs. 5, 6.]	



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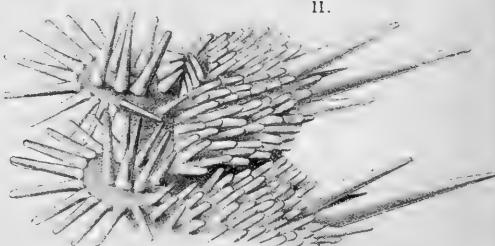
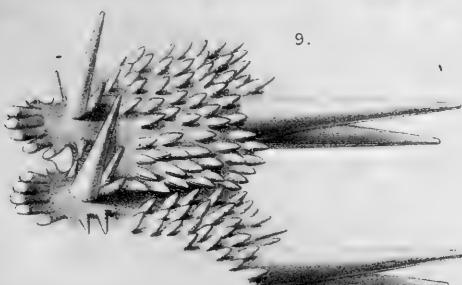
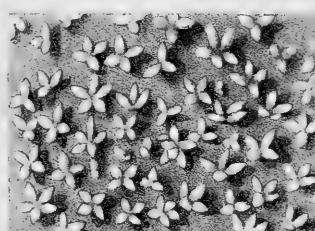
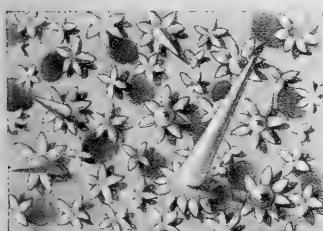
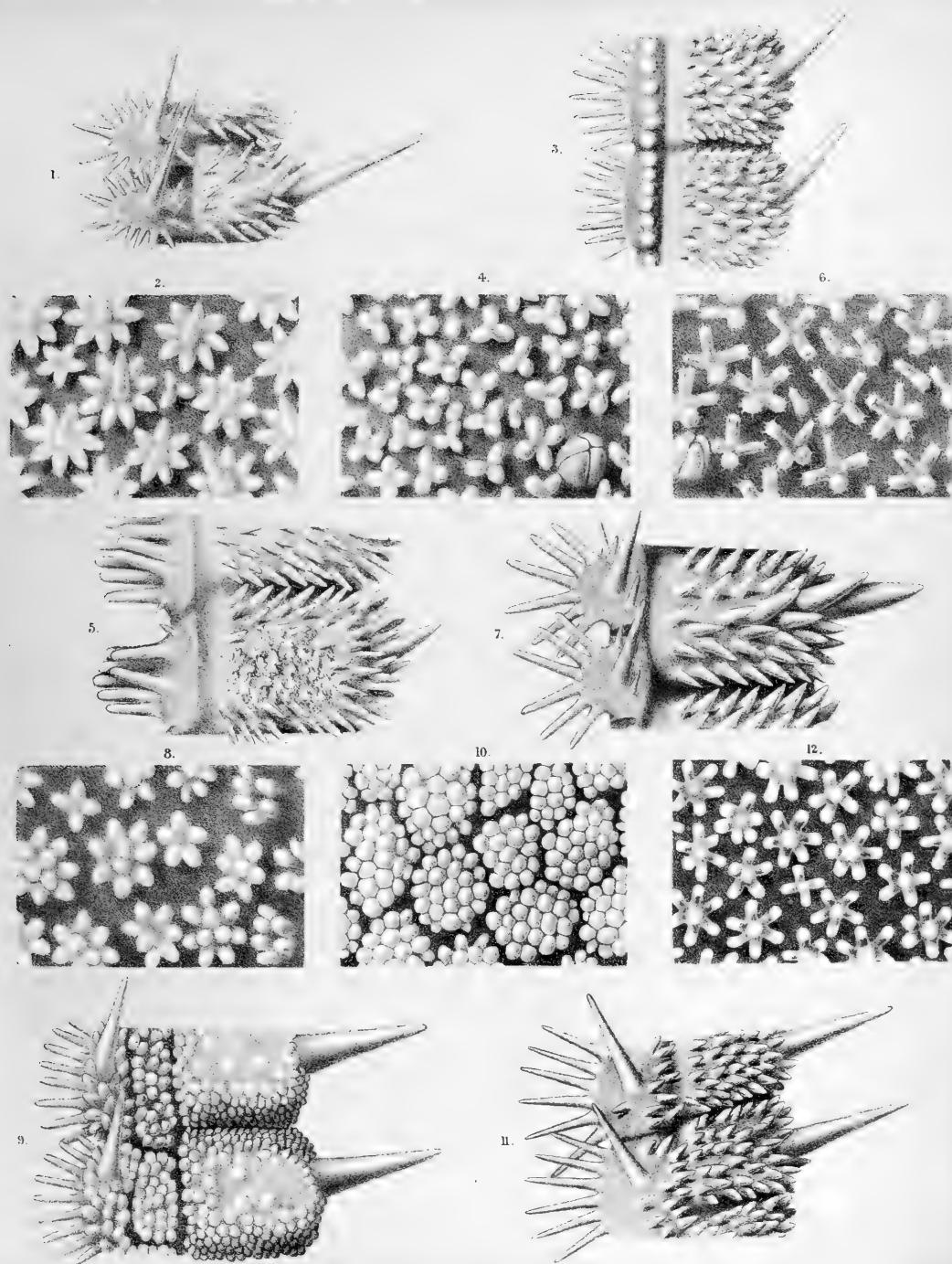


PLATE XIII.

(ZOOLOGICAL SURVEY OF INDIA.—PART LI.—1888.)—G

PLATE XIII.

	Page
Figs. 1, 2. <i>PONTASTER PLANETA</i> , n. sp.	30
Fig. 1. Adambulacral and infero-marginal plates; magnified 15 diameters.	
Fig. 2. A portion of the abactinal surface; magnified 40 diameters.	
[For macroscopic figures of this species see Pl. X. figs. 1, 2.]	
Figs. 3, 4. <i>DYTASTER BISERIALIS</i> , n. sp.	77
Fig. 3. Adambulacral and infero-marginal plates; magnified 12 diameters.	
Fig. 4. A portion of the abactinal surface; magnified 30 diameters.	
[For macroscopic figures of this species see Pl. X. figs. 3, 4.]	
Figs. 5, 6. <i>DYTASTER INERMIS</i> , n. sp.	79
Fig. 5. Adambulacral and infero-marginal plates; magnified 30 diameters.	
Fig. 6. A portion of the abactinal surface; magnified 50 diameters.	
[For macroscopic figures of this species see Pl. X. figs. 5, 6.]	
Figs. 7, 8. <i>PONTASTER SUBTUBERCULATUS</i> , n. sp.	58
Fig. 7. Adambulacral and infero-marginal plates; magnified 20 diameters.	
Fig. 8. A portion of the abactinal surface; magnified 35 diameters.	
[For macroscopic figures of this species see Pl. V. figs. 3, 4.]	
Figs. 9, 10. <i>PLUTONASTER BIFRONS</i> , Wyville Thomson, sp.	84
Fig. 9. Adambulacral and infero-marginal plates; magnified 10 diameters.	
Fig. 10. A portion of the abactinal surface; magnified 30 diameters.	
[For macroscopic figures of this species see Pl. XI. figs. 1-4.]	
Figs. 11, 12. <i>PLUTONASTER AMBIGUUS</i> , n. sp.	95
Fig. 11. Adambulacral and infero-marginal plates; magnified 20 diameters.	
Fig. 12. A portion of the abactinal surface; magnified 35 diameters.	
[For macroscopic figures of this species see Pl. XI. figs. 5, 6.]	



1-2. *PONTASTER PLANETA*, n. sp.

5-6. *DYTASTER INERMIS*, n. sp.

9-10. *PLUTONASTER BIFRONS*, Wyville Thomson, sp.

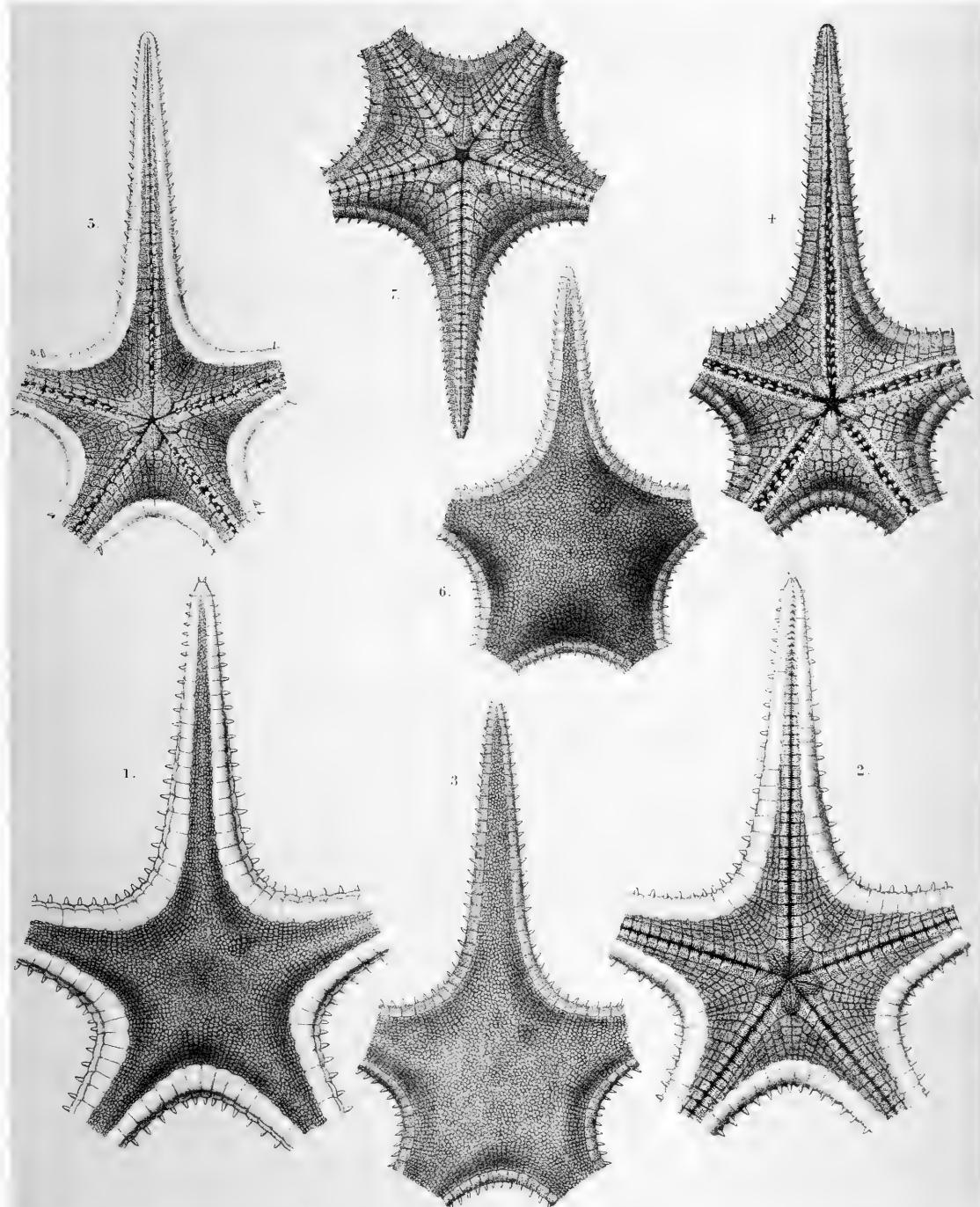
3-4. *DYTASTER BISERIALIS*, n. sp.

7-8. *PONTASTER SUBTUBERCULATUS*, n. sp.

PLATE XIV.

PLATE XIV.

	Page
Figs. 1, 2. <i>PLUTONASTER MARGINATUS</i> , n. sp.	88
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XV. figs. 1, 2.]	
Figs. 3, 4. <i>PLUTONASTER RIGIDUS</i> , n. sp.	91
Fig. 3. Abactinal aspect; natural size.	
Fig. 4. Actinal aspect; natural size.	
[For magnified details of this species see Pl. XV. figs. 3, 4.]	
Fig. 5. <i>PLUTONASTER RIGIDUS</i> , var. <i>SEMIARMATA</i> , nov.	94
Fig. 5. Actinal aspect; natural size.	
Figs. 6, 7. <i>PLUTONASTER NOTATUS</i> , n. sp.	97
Fig. 6. Abactinal aspect; magnified 2 diameters.	
Fig. 7. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XV. figs. 5, 6.]	



1-2. *PLUTONASTER MARGINATUS*, n.sp.

5. *PLUTONASTER RIGIDUS*, var. *SEMIARMATA* nov.

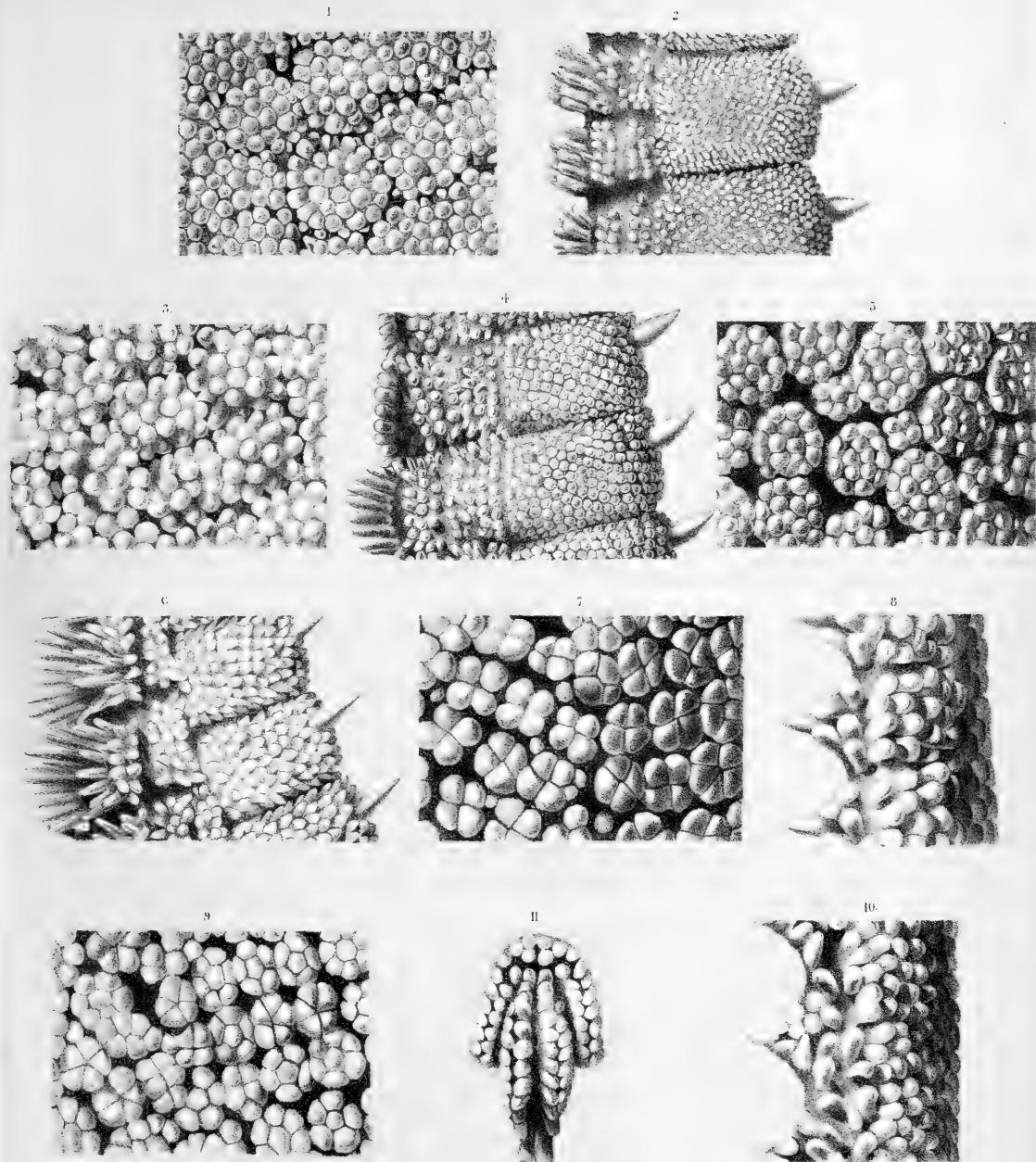
3-4. *PLUTONASTER RIGIDUS*, n.sp.

6-7. *PLUTONASTER NOTATUS*, n.sp.

PLATE XV.

PLATE XV.

	Page
Figs. 1, 2. <i>PLUTONASTER MARGINATUS</i> , n. sp.	88
Fig. 1. A portion of the abactinal surface; magnified 30 diameters.	
Fig. 2. Adambulacral and infero-marginal plates; magnified 9 diameters.	
[For macroscopic figures of this species see Pl. XIV. figs. 1, 2.]	
Figs. 3, 4. <i>PLUTONASTER RIGIDUS</i> , n. sp.	91
Fig. 3. A portion of the abactinal surface; magnified 18 diameters.	
Fig. 4. Adambulacral and infero-marginal plates; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. XIV. figs. 3, 4.]	
Figs. 5, 6. <i>PLUTONASTER NOTATUS</i> , n. sp.	97
Fig. 5. A portion of the abactinal surface; magnified 25 diameters.	
Fig. 6. Adambulacral and infero-marginal plates; magnified 16 diameters.	
[For macroscopic figures of this species see Pl. XIV. figs. 6, 7.]	
Figs. 7-11. <i>PHOXASTER PUMILUS</i> , n. sp.	236
Fig. 7. A portion of the abactinal surface of a young example; magnified 30 diameters.	
Fig. 8. Adambulacral and infero-marginal plates of a young example; magnified 25 diameters.	
Fig. 9. A portion of the abactinal surface of an adult example; magnified 25 diameters.	
Fig. 10. Adambulacral and infero-marginal plates of an adult example; magnified 20 diameters.	
Fig. 11. Mouth-plates and armature; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XL. figs. 3-6.]	



1-2. *PLUTONASTER MARGINATUS*, n. sp.
5-6. *PLUTONASTER NOTATUS*, n. sp.

3-4. *PLUTONASTER RIGIDUS*, n. sp.
7-11. *PHOXASTER PUMILUS*, n. sp.

PLATE XVI.

PLATE XVI.

	Page
Figs. 1-5. <i>LONCHOTASTER TARTAREUS</i> , n. sp.	104
Fig. 1. Abactinal aspect ; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect ; magnified $1\frac{1}{2}$ diameters.	
Fig. 3. Profile view ; magnified 2 diameters.	
Fig. 4. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 5. Adambulacral and infero-marginal plates ; magnified 10 diameters.	

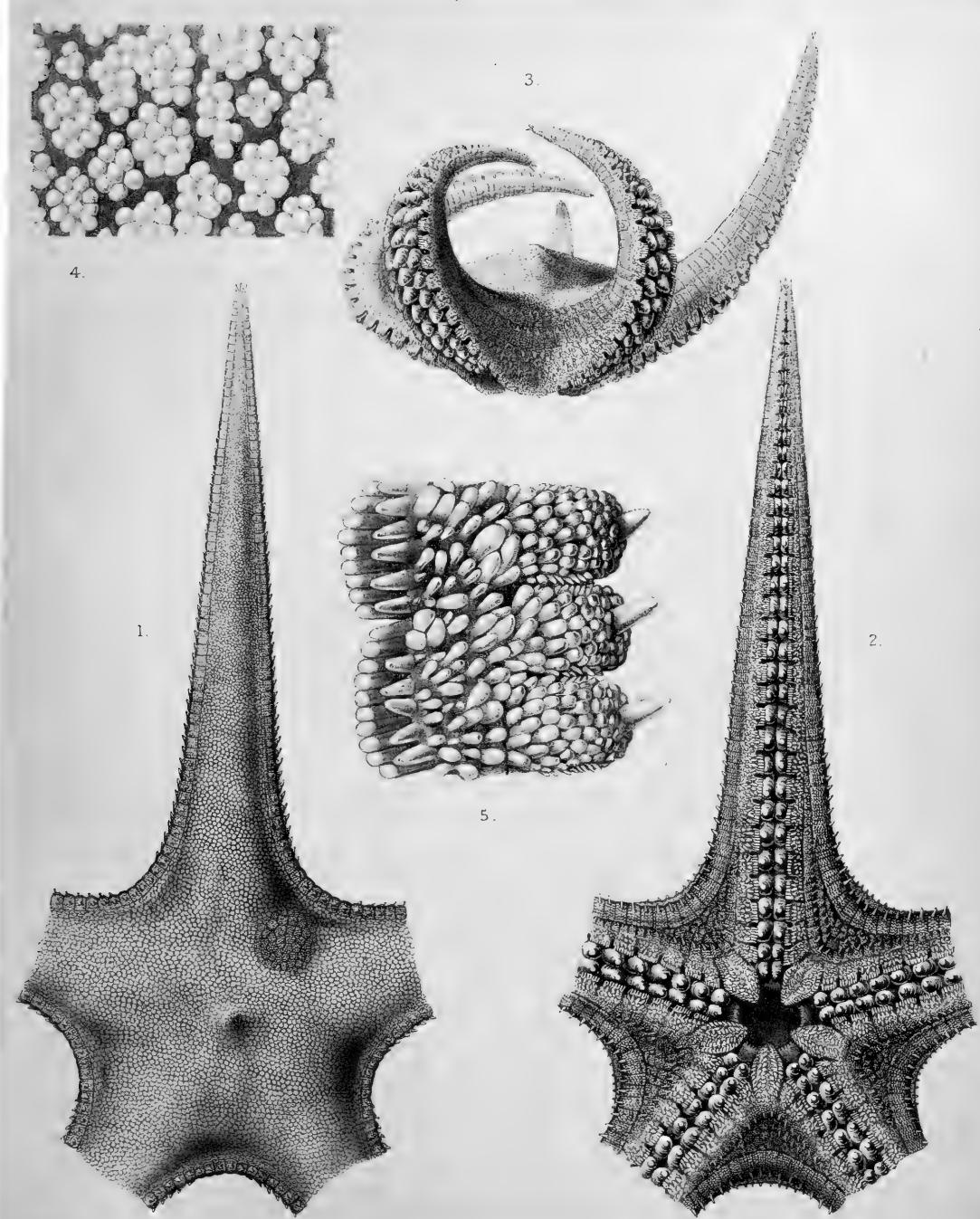


PLATE XVII.

(ZOOLOGICAL SURVEY OF INDIA.—PART LI.—1888.)—I

PLATE XVII.

	Page
Figs. 1, 2. <i>APHRODITASTER GRACILIS</i> , n. sp.	117

Fig. 1. Abactinal aspect; magnified 2 diameters.

Fig. 2. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. XVIII. figs. 7, 8.]

Figs. 3, 4. <i>PSEUDARCHASTER TESSELLATUS</i> , n. sp.	112
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Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. XVIII. figs. 9-10.]

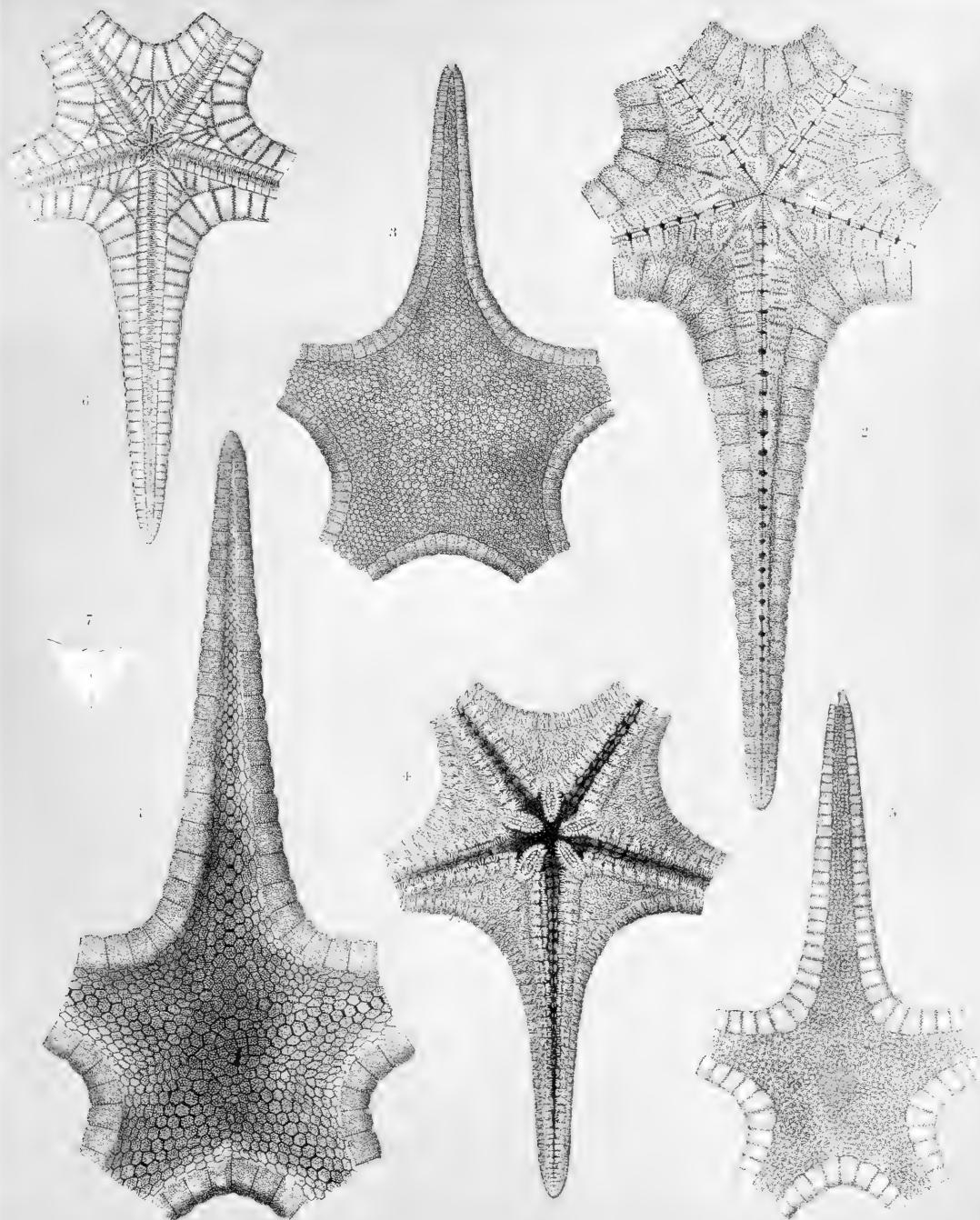
Figs. 5-7. <i>CRASPIDASTER HESPERUS</i> , Müller and Troschel, sp.	177
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Fig. 5. Abactinal aspect; magnified 2 diameters.

Fig. 6. Actinal aspect; magnified 2 diameters.

Fig. 7. Diagram of the actinal intermediate plates of an example from Hong Kong; magnified 2 diameters.

[For magnified details of this species see Pl. XVIII. figs. 1-4.]



1-2. *APHRIDITASTER GRACILIS*, n. sp.

3-4. *PSEUDARCHASTER TESSELLATUS*, n. sp.

5-7. *CRASPIDASTER HESPERUS*, Müller & Troschel, sp.

PLATE XVIII.

PLATE XVIII.

	Page
Figs. 1-4. <i>CRASPIDASTER HESPERUS</i> , Müller and Troschel, sp.	177
Fig. 1. A portion of the abactinal surface of an example from the Philippine Islands; magnified 20 diameters.	
Fig. 2. Adambulacral and infero-marginal plates of the same; magnified 15 diameters.	
Fig. 3. A portion of the abactinal surface of an example from Hong Kong; magnified 18 diameters.	
Fig. 4. Adambulacral and infero-marginal plates of the same; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XVII. figs. 5-7.]	
Figs. 5, 6. <i>PENTAGONASTER ARCUATUS</i> , n. sp.	277
Fig. 5. A portion of the abactinal surface; magnified 8 diameters.	
Fig. 6. Adambulacral and adjacent intermediate plates; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. LII. figs. 1, 2.]	
Figs. 7, 8. <i>APHRODITASTER GRACILIS</i> , n. sp.	117
Fig. 7. A portion of the abactinal surface, showing the plates of the median radial line; magnified 12 diameters.	
Fig. 8. Adambulacral and infero-marginal plates; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XVII. figs. 1, 2.]	
Figs. 9, 10. <i>PSEUDARCHASTER TESSELLATUS</i> , n. sp.	112
Fig. 9. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 10. Adambulacral and infero-marginal plates; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XVII. figs. 3, 4.]	

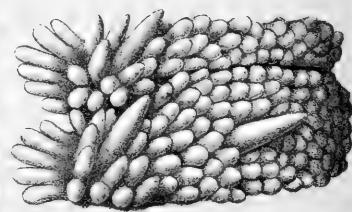
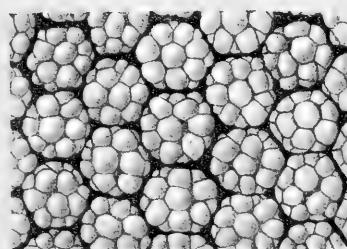
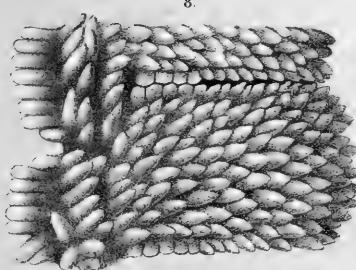
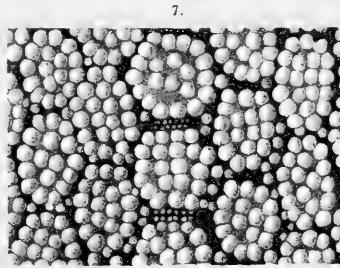
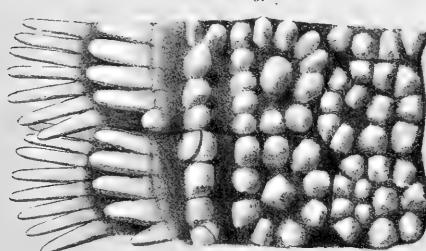
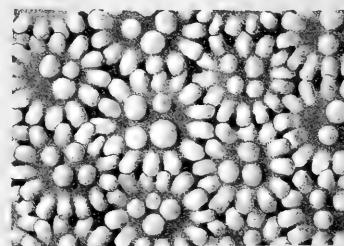
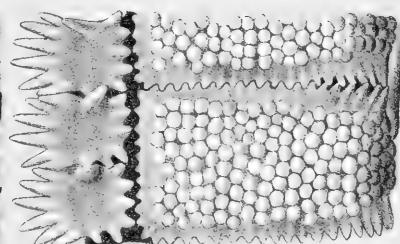
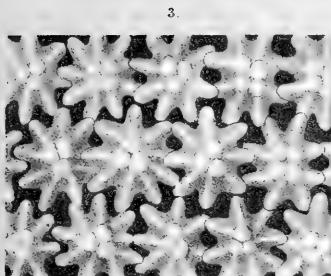
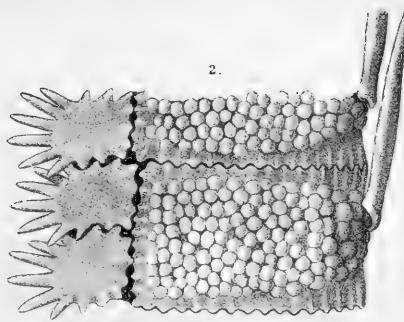
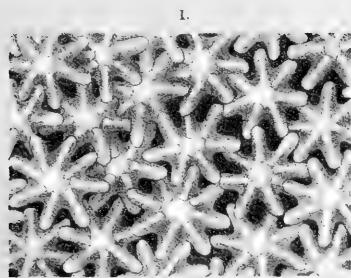
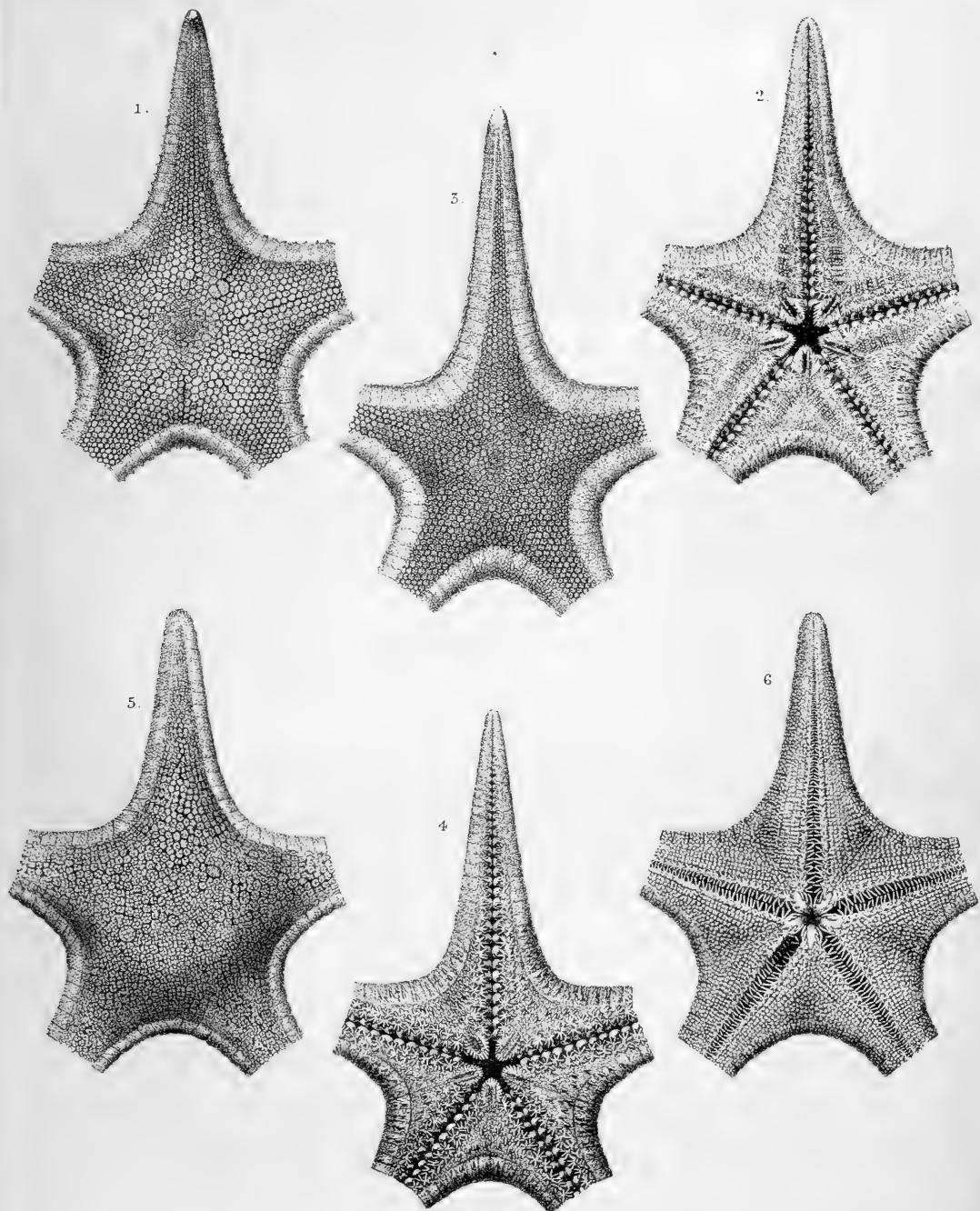


PLATE XIX.

PLATE XIX.

	Page
Figs. 1, 2. <i>PSEUDARCHASTER DISCUS</i> , n. sp.	110
Fig. 1. Abactinal aspect; magnified 2 diameters.	
Fig. 2. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XLII. figs. 3, 4.]	
Figs. 3, 4. <i>PSEUDARCHASTER INTERMEDIUS</i> , n. sp.	115
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XLII. figs. 5, 6.]	
Figs. 5, 6. <i>GNATHASTER ELONGATUS</i> , n. sp.	288
Fig. 5. Abactinal aspect of a young example; magnified 3 diameters.	
Fig. 6. Actinal aspect of a young example; magnified 3 diameters.	
[For figures of adult examples of this species see Pl. XLVIII. figs. 1-4; for magnified details see Pl. XLIX. figs. 5-10.]	



1-2. *PSEUDARCHASTER DISCUS*, n.sp.

3-4. *PSEUDARCHASTER INTERMEDIUS*, n.sp.

5-6. *GNATHASTER ELONGATUS*, n.sp. juv.

PLATE XX.

PLATE XX.

	Page
Figs. 1-7. <i>PORCELLANASTER CÆRULEUS</i> , Wyville Thomson,	134
Fig. 1. Abactinal aspect; magnified 3 diameters.	
Fig. 2. Actinal aspect; magnified 3 diameters.	
Fig. 3. Profile view; magnified 3 diameters.	
Fig. 4. A cribiform organ; magnified 10 diameters.	
Fig. 5. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 6. Abactinal aspect of a young example; magnified 3 diameters.	
Fig. 7. Actinal aspect of a young example; magnified 3 diameters.	

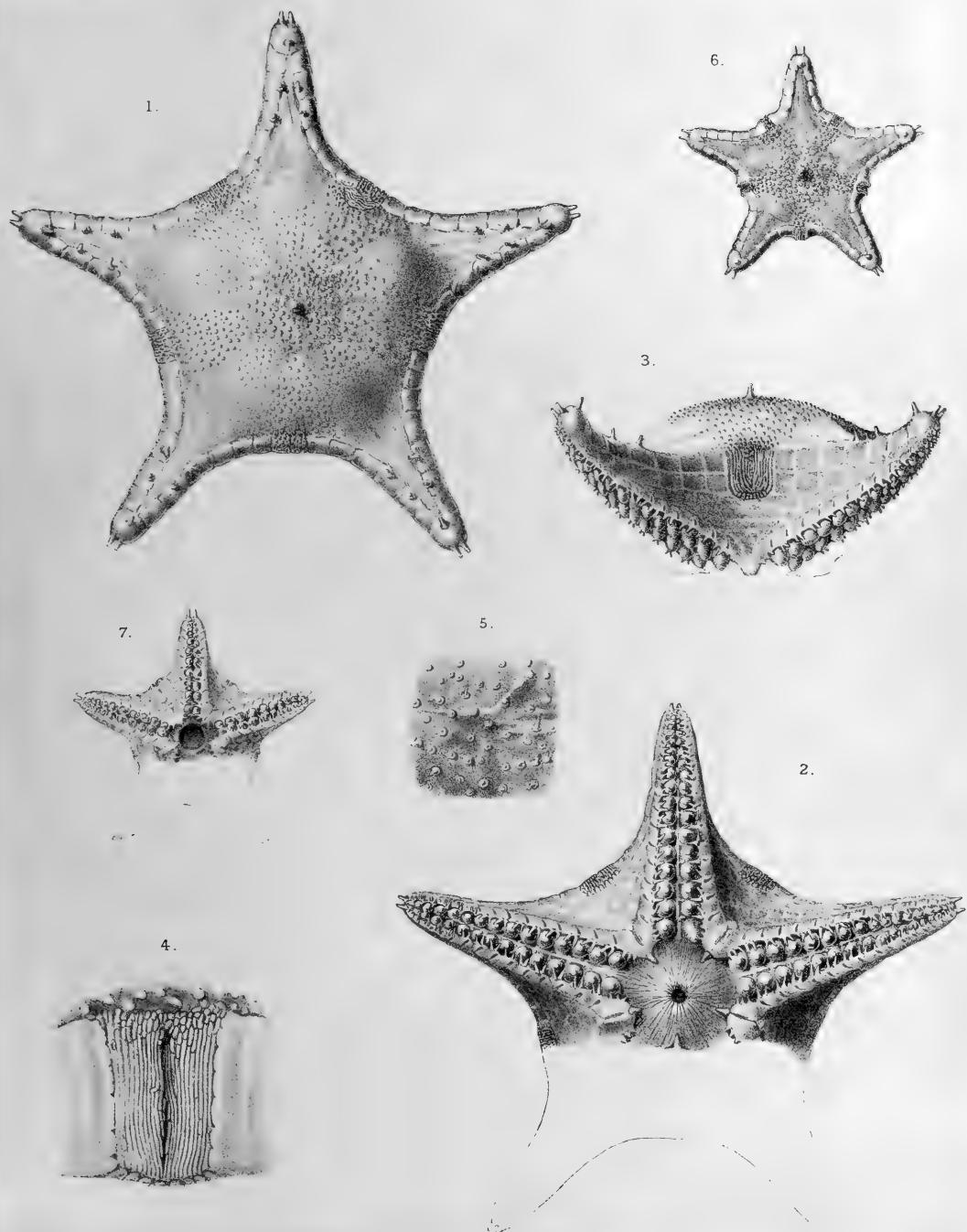


PLATE XX^A.

PLATE XX^A.

	Page
Figs. 1-10. <i>PORCELLANASTER CÆRULEUS</i> , Wyville Thomson, . . .	134

Fig. 1. Abactinal aspect; magnified 3 diameters.

Fig. 2. Actinal aspect; magnified 3 diameters.

Fig. 3. Profile view; magnified 3 diameters.

Fig. 4. A portion of the actinostome, showing the buccal membrane, and an adjacent radial area; magnified 5 diameters.

Fig. 5. An actinal interradial area; magnified 6 diameters.

Fig. 6. A terminal plate, abactinal aspect; magnified about 7 diameters.

Fig. 7. Actinal aspect of the same; magnified about 7 diameters.

Fig. 8. A pair of ambulacral plates, seen in profile; magnified 5 diameters.

Fig. 9. Ambulacral plates seen from above; magnified 5 diameters.

Fig. 10. Lateral view of the same, showing the adambulacral plates; magnified 5 diameters. [The character of the latter is somewhat exaggerated.]

[These figures appear to have been drawn from a dried or shrunken example.

The plate was prepared under the direction of Sir Wyville Thomson, and I was unfortunately not aware of its existence until the greater part of the text and nearly all the plates had been printed off.]

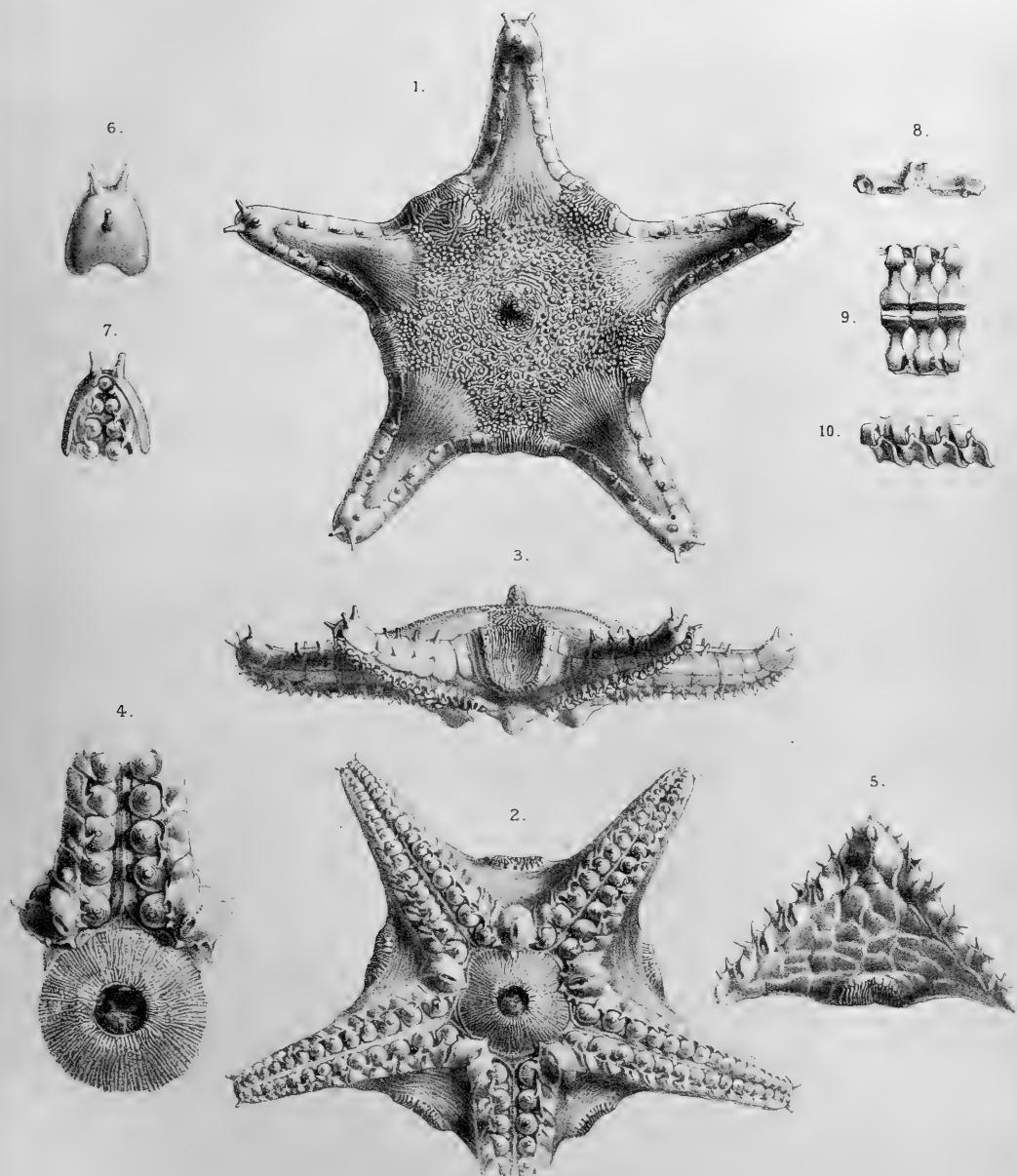


PLATE XXI.

PLATE XXI.

	Page
Figs. 1-4. <i>HYPHALASTER DIADEMATUS</i> , n. sp.	159

Fig. 1. Abactinal aspect; magnified 4 diameters.

Fig. 2. Actinal aspect; magnified 4 diameters.

Fig. 3. Profile view; magnified 4 diameters.

Fig. 4. A portion of the abactinal surface; magnified about 14 diameters.

[For magnified details of this species see Pl. XXVIII. figs. 17-20.]

Figs. 5-10. <i>PORCELLANASTER CAULIFER</i> , n. sp.	138
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Fig. 5. Abactinal aspect; magnified 4 diameters.

Fig. 6. Actinal aspect; magnified 4 diameters.

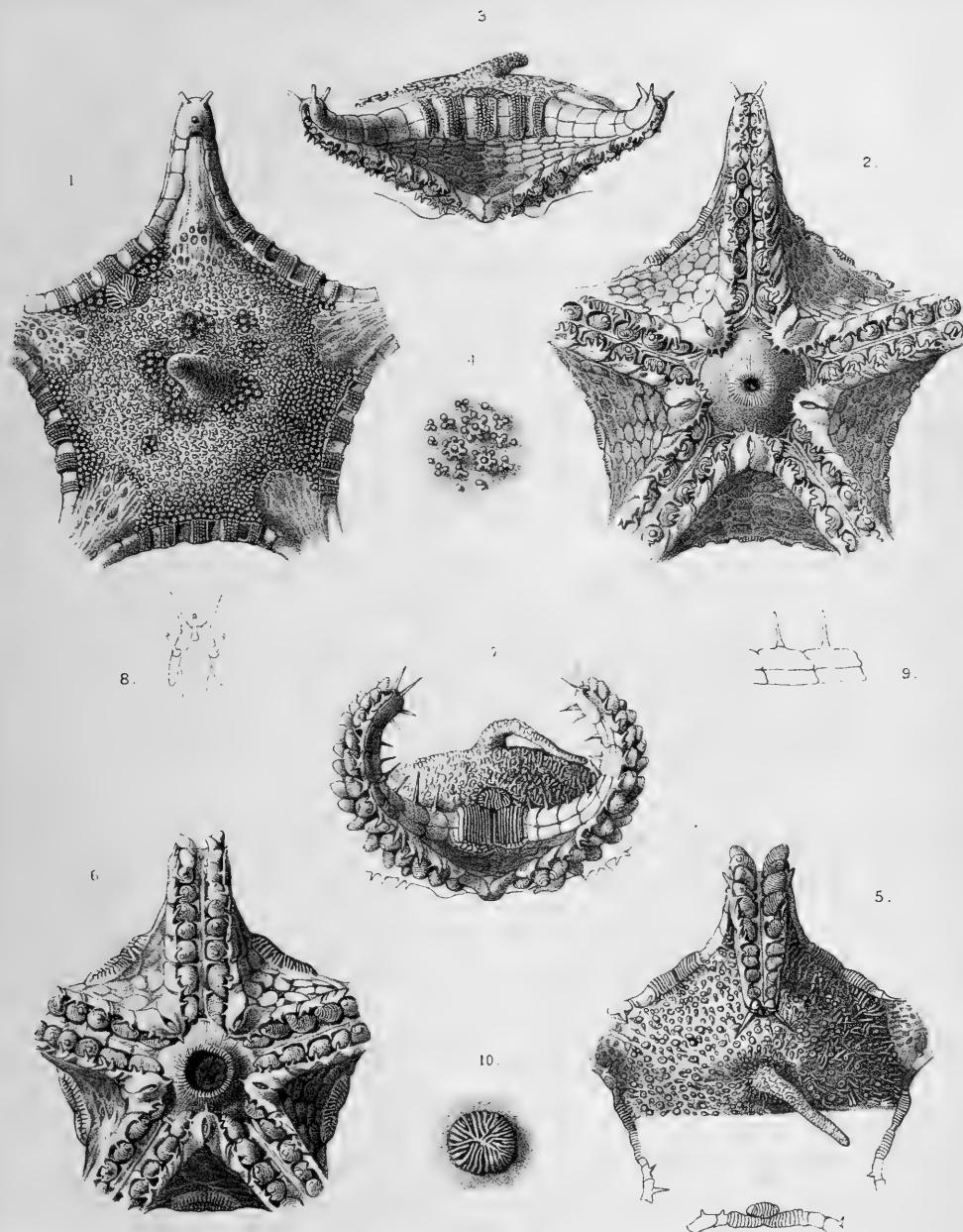
Fig. 7. Profile view; magnified 4 diameters.

Fig. 8. Diagram of the terminal plate; magnified.

Fig. 9. Diagram of the marginal plates; magnified.

Fig. 10. The madreporiform body; magnified 8 diameters.

[For magnified details of this species see Pl. XXVII. figs. 9-12.]



1-4. *HYPHALASTER DIADEMATUS*, n.sp.

5-10. *PORCELLANASTER CAULIFER*, n.sp.

PLATE XXII.

PLATE XXII.

	Page
Figs. 1-3. <i>PORCELLANASTER GRACILIS</i> , n. sp.	143

Fig. 1. Abactinal aspect; magnified 5 diameters.

Fig. 2. Actinal aspect; magnified 5 diameters.

Fig. 3. Profile view; magnified 5 diameters.

[For magnified details of this species see Pl. XXVII. figs. 5-8.]

Figs. 4-7. <i>PORCELLANASTER CRASSUS</i> , n. sp.	141
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Fig. 4. Abactinal aspect; magnified 2 diameters.

Fig. 5. Actinal aspect; magnified 2 diameters.

Fig. 6. Profile view; magnified 2 diameters.

Fig. 7. Direct lateral view of a ray, in outline; magnified 2 diameters.

[For magnified details of this species see Pl. XXVII. figs. 1-4.]

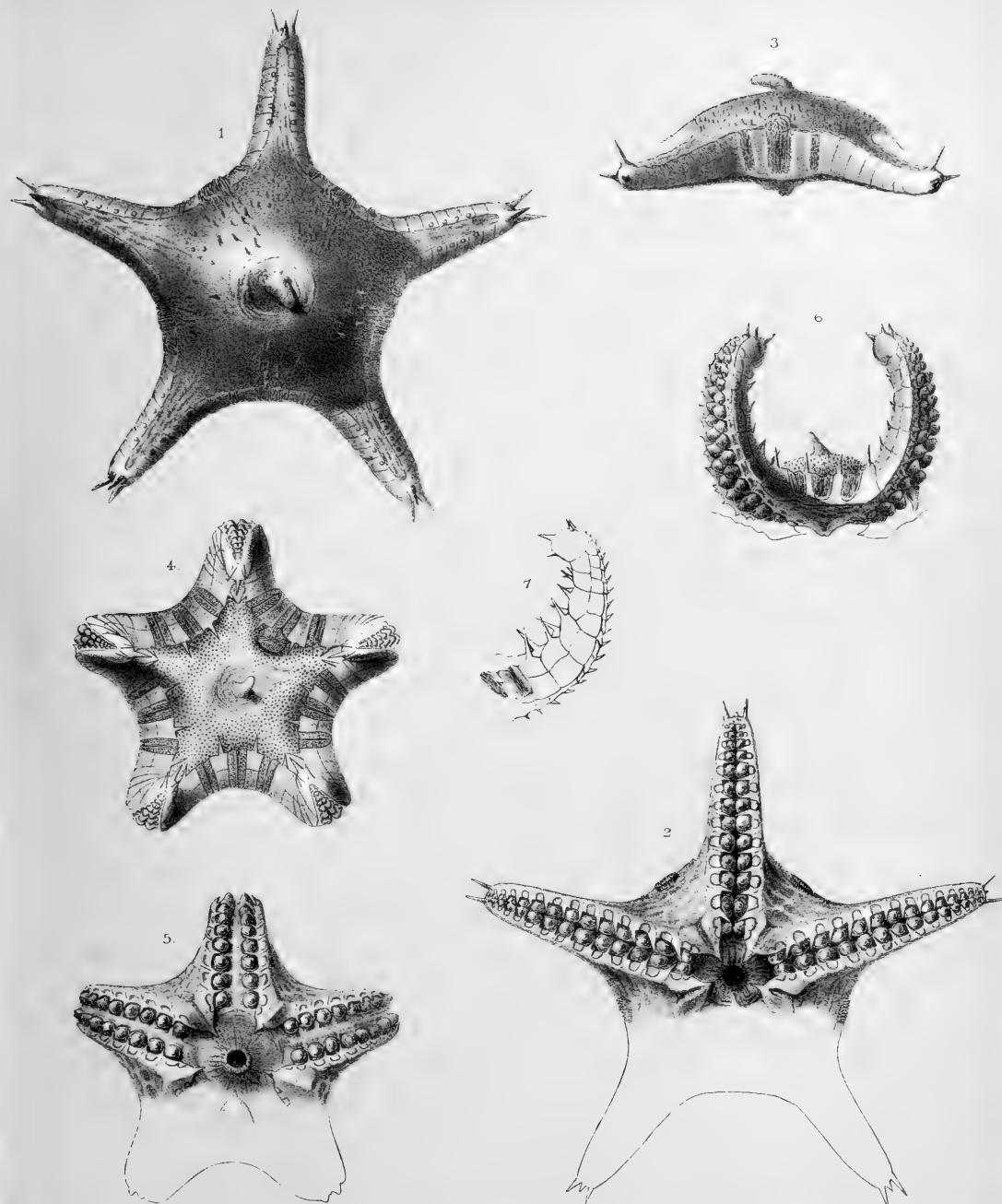


PLATE XXIII.

PLATE XXIII.

	Page
Figs. 1-4. <i>PORCELLANASTER TUBEROSUS</i> , n. sp.	140

Fig. 1. Abactinal aspect; magnified 3 diameters.

Fig. 2. Actinal aspect; magnified 3 diameters.

Fig. 3. Profile view; magnified 3 diameters.

Fig. 4. Direct lateral view of a ray, in outline; magnified 3 diameters.

[For magnified details of this species see Pl. XXVII. figs. 13-16.]

Figs. 5-7. <i>STYRACASTER HORRIDUS</i> , n. sp.	150
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Fig. 5. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 6. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 7. Direct lateral view of a ray; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. XXVII. figs. 17-20.]

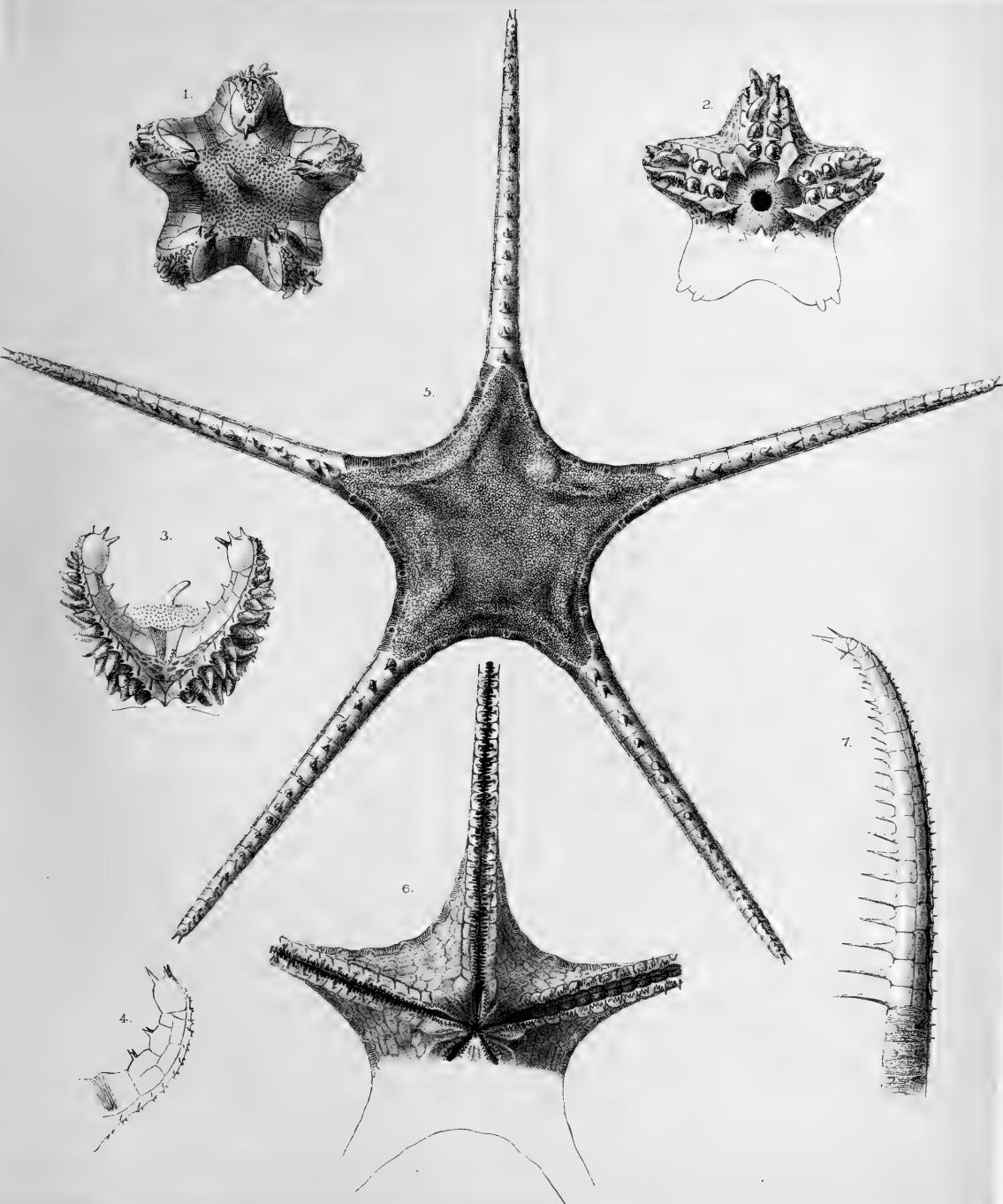


PLATE XXIV.

PLATE XXIV.

Figs. 1-4. *STYRACASTER ARMATUS*, n. sp.

Page
153

Fig. 1. Abactinal aspect; magnified 2 diameters.

Fig. 2. Actinal aspect; magnified 2 diameters.

Fig. 3. Profile view; magnified 2 diameters.

Fig. 4. Lateral view of a ray; magnified 2 diameters.

[For magnified details of this species see Pl. XXVIII. figs. 1-4.]

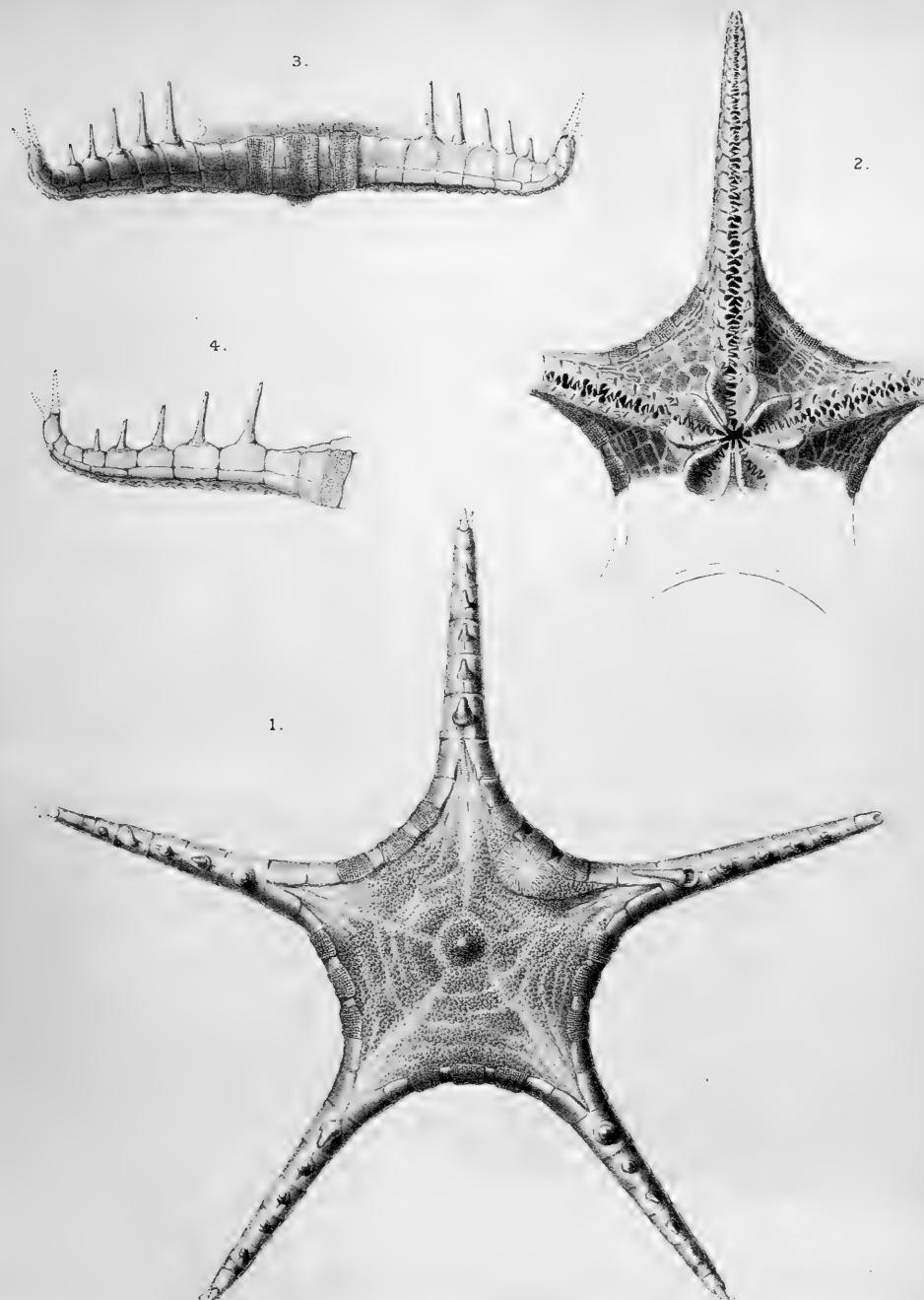


PLATE XXV.

PLATE XXV.

	Page
Figs. 1-3. <i>HYPHALASTER PLANUS</i> , n. sp.	165

Fig. 1. Abactinal aspect; magnified 2 diameters.

Fig. 2. Actinal aspect; magnified 2 diameters.

Fig. 3. Profile view; magnified 2 diameters.

[For magnified details of this species see Pl. XXVIII. figs 9-12.]

Figs. 4-6. <i>HYPHALASTER INERMIS</i> , n. sp.	162
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Fig. 4. Abactinal aspect; magnified 3 diameters.

Fig. 5. Actinal aspect; magnified 3 diameters.

Fig. 6. Profile view; magnified 3 diameters.

[For magnified details of this species see Pl. XXVIII. figs. 5-8.]

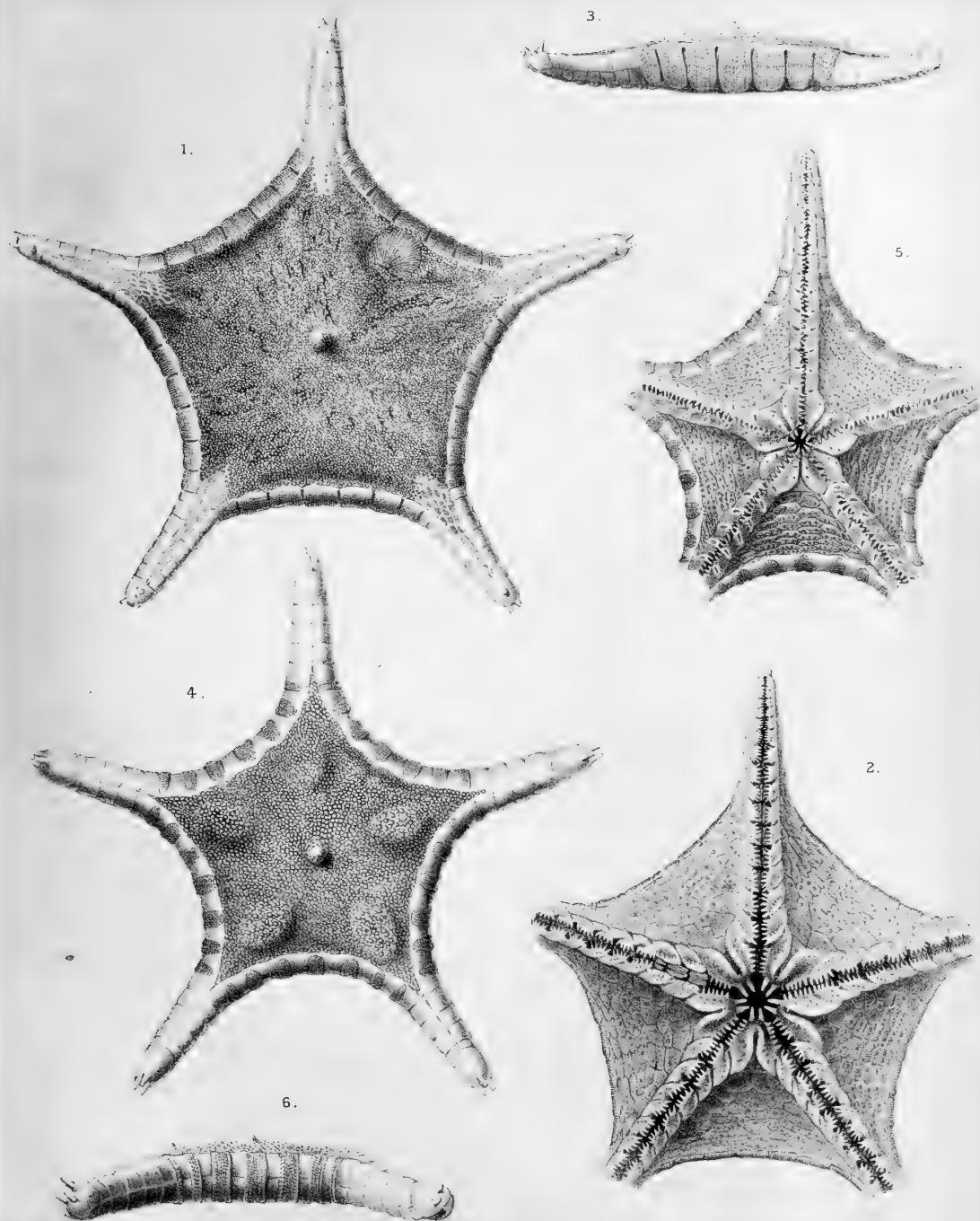


PLATE XXVI.

(ZOOLOGICAL SOCIETY OF LONDON,
PART LI.—1888.)—O

PLATE XXVI.

	Page
Figs. 1-6. <i>HYPHALASTER HYALINUS</i> , n. sp.	156

Fig. 1. Abactinal aspect; magnified 3 diameters.

Fig. 2. Actinal aspect; magnified 3 diameters.

Fig. 3. Profile view; magnified 3 diameters.

Fig. 4. Abactinal aspect of a young example; magnified 4 diameters.

Fig. 5. Actinal aspect of a young example; magnified 4 diameters.

Fig. 6. An embryonic abactinal plate; magnified 54 diameters.

[For magnified details of this species see Pl. XXVIII. figs. 13-16.]

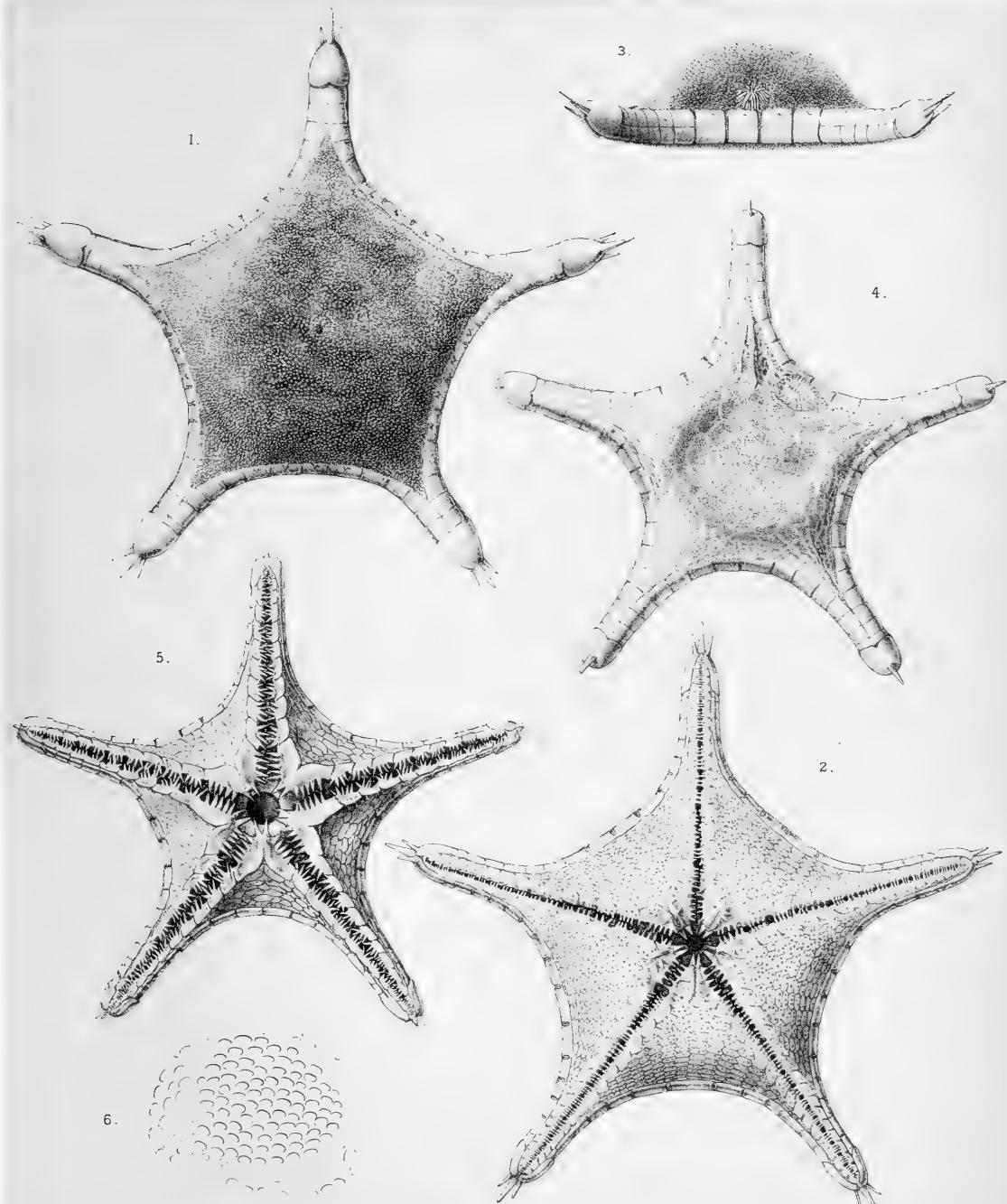


PLATE XXVII.

PLATE XXVII.

	Page
Figs. 1-4. <i>PORCELLANASTER CRASSUS</i> , n. sp. . . .	141
Fig. 1. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 2. Mouth-plates ; magnified 5 diameters.	
Fig. 3. Adambulacral plates, with segmental pits and papillæ ; magnified 10 diameters.	
Fig. 4. A cibriform organ ; magnified 6 diameters.	
[For macroscopic figures of this species see Pl. XXII. figs. 4-7.]	
Figs. 5-8. <i>PORCELLANASTER GRACILIS</i> , n. sp. . . .	143
Fig. 5. A portion of the abactinal surface ; magnified 15 diameters.	
Fig. 6. Mouth-plates ; magnified 10 diameters.	
Fig. 7. Adambulacral plates, with segmental pits and papillæ ; magnified 18 diameters.	
Fig. 8. A cibriform organ ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XXII. figs. 1-3.]	
Figs. 9-12. <i>PORCELLANASTER CAULIFER</i> , n. sp. . . .	138
Fig. 9. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 10. Mouth-plates ; magnified 10 diameters.	
Fig. 11. Adambulacral plates ; magnified 15 diameters.	
Fig. 12. A cibriform organ ; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XXI. figs. 5-10.]	
Figs. 13-16. <i>PORCELLANASTER TUBEROSUS</i> , n. sp. . . .	140
Fig. 13. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 14. Mouth-plates ; magnified 8 diameters.	
Fig. 15. Adambulacral plates ; magnified 16 diameters.	
Fig. 16. A cibriform organ ; magnified 9 diameters.	
[For macroscopic figures of this species see Pl. XXIII. figs. 1-4.]	
Figs. 17-20. <i>STYRACASTER HORRIDUS</i> , n. sp. . . .	150
Fig. 17. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 18. Mouth-plates ; magnified 4 diameters.	
Fig. 19. Adambulacral plates ; magnified 8 diameters.	
Fig. 20. A cibriform organ ; magnified 5 diameters.	
[For macroscopic figures of this species see Pl. XXIII. figs. 5-7.]	

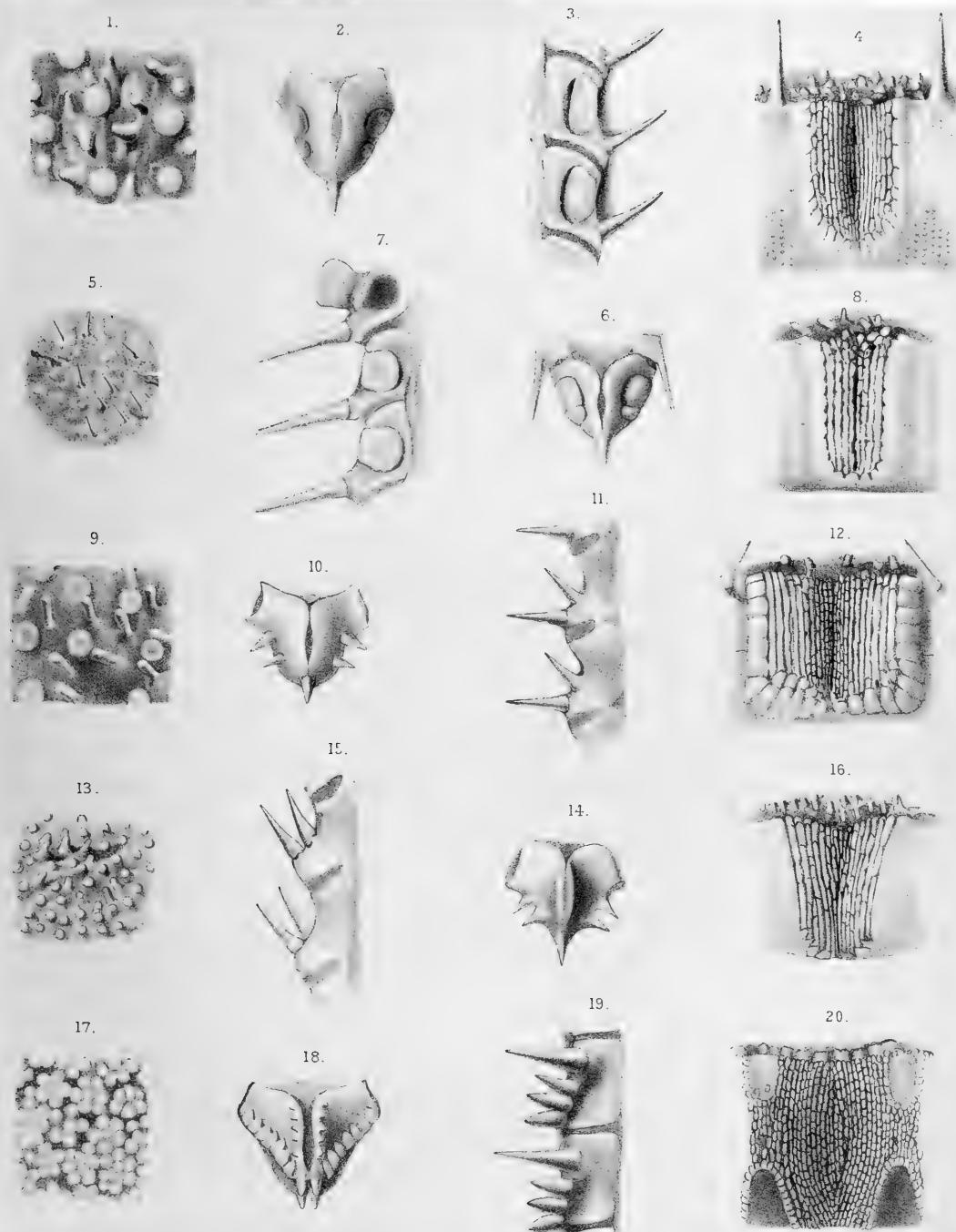


PLATE XXVIII.

(ZOOLOGICAL EXP.—PART LI.—1888.)—P

PLATE XXVIII.

	Page
Figs. 1-4. <i>STYRACASTER ARMATUS</i> , n. sp.	153
Fig. 1. A portion of the abactinal surface; magnified 18 diameters.	
Fig. 2. Mouth-plates; magnified 5 diameters.	
Fig. 3. Adambulacral plates; magnified 9 diameters.	
Fig. 4. A cribriform organ; magnified 6 diameters.	

[For macroscopic figures of this species see Pl. XXIV. figs. 1-4.]

Figs. 5-8. <i>HYPHALASTER INERMIS</i> , n. sp.	162
Fig. 5. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 6. Mouth-plates; magnified 9 diameters.	
Fig. 7. Adambulacral plates; magnified 12 diameters.	
Fig. 8. A cribriform organ; magnified 9 diameters.	

[For macroscopic figures of this species see Pl. XXV. figs. 4-6.]

Figs. 9-12. <i>HYPHALASTER PLANUS</i> , n. sp.	165
Fig. 9. A portion of the abactinal surface; magnified 18 diameters.	
Fig. 10. Mouth-plates; magnified 5 diameters.	
Fig. 11. Adambulacral plates; magnified 8 diameters.	
Fig. 12. A cribriform organ; magnified 6 diameters.	

[For macroscopic figures of this species see Pl. XXV. figs. 1-3.]

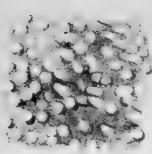
Figs. 13-16. <i>HYPHALASTER HYALINUS</i> , n. sp.	156
Fig. 13. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 14. Mouth-plates; magnified 9 diameters.	
Fig. 15. Adambulacral plates; magnified 12 diameters.	
Fig. 16. A cribriform organ; magnified 15 diameters.	

[For macroscopic figures of this species see Pl. XXVI. figs. 1-5.]

Figs. 17-20. <i>HYPHALASTER DIADEMATUS</i> , n. sp.	159
Fig. 17. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 18. Mouth-plates; magnified 10 diameters.	
Fig. 19. Adambulacral plates; magnified 15 diameters.	
Fig. 20. A cribriform organ; magnified 12 diameters.	

[For macroscopic figures of this species see Pl. XXI. figs. 1-4.]

1.



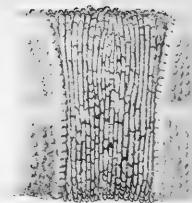
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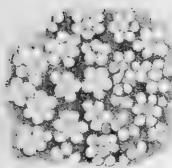
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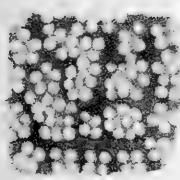
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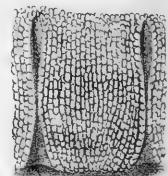
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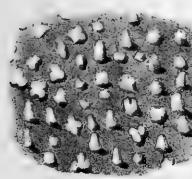
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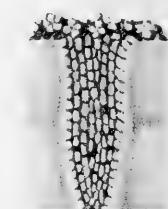
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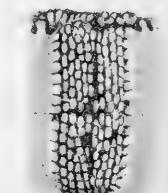
1-4. *STYRACASTER ARMATUS*, n.sp. 5-8. *HYPHALASTER INERMIS*, n.sp.9-12. *HYPHALASTER PLANUS*, n.sp. 13-16. *HYPHALASTER HYALINUS*, n.sp.17-20. *HYPHALASTER DIADEMATUS*, n.sp.

PLATE XXIX.

PLATE XXIX.

Page
168

Figs. 1-6. *THORACASTER CYLINDRATUS*, n. sp.

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

Fig. 3. Profile view; natural size.

Fig. 4. A portion of the abactinal surface; magnified 10 diameters.

Fig. 5. Mouth-plates; magnified.

Fig. 6. A portion of the actinal surface of a ray, showing adambulacral plates
and infero-marginal plates; magnified 10 diameters.

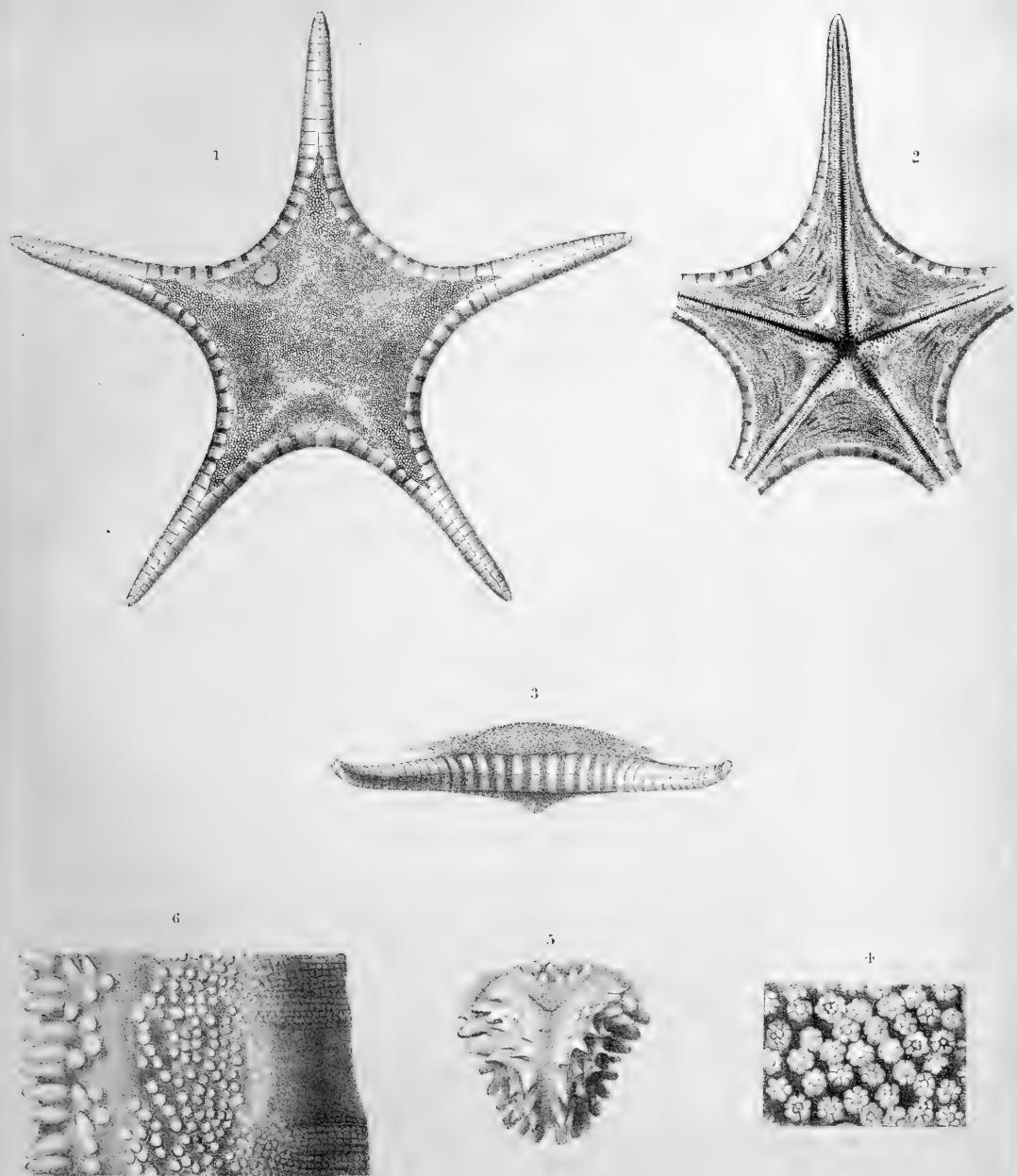


PLATE XXX.

PLATE XXX.

	Page
Figs. 1-6. <i>CTENODISCUS AUSTRALIS</i> , Lütken,	172
Fig. 1. Abactinal aspect; magnified 2 diameters.	
Fig. 2. Actinal aspect; magnified 2 diameters.	
Fig. 3. Profile view; magnified 2 diameters.	
Fig. 4. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 5. Adambulacral plates and the adjacent portion of the actinal surface; magnified 12 diameters.	
Fig. 6. The extremity of a ray; magnified.	
Figs. 7-12. <i>CTENODISCUS PROCURATOR</i> , n. sp.	173
Fig. 7. Abactinal aspect; magnified 2 diameters.	
Fig. 8. Actinal aspect; magnified 2 diameters.	
Fig. 9. A portion of the abactinal surface; magnified 16 diameters.	
Fig. 10. Adambulacral plates and the adjacent portion of the actinal surface; magnified 8 diameters.	
Fig. 11. Abactinal aspect of a young example; natural size.	
Fig. 12. Mouth-plates; magnified.	



PLATE XXXI.

PLATE XXXI.

	Page
Figs. 1, 2. <i>LEPTOPTYCHASTER KERGUELENENSIS</i> , Smith,	184
Fig. 1. Abactinal aspect, showing immature young <i>in situ</i> ; magnified 2 diameters.	
Fig. 2. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XXXII. figs. 1, 2.]	
Figs. 3, 4. <i>LEPTOPTYCHASTER ANTARCTICUS</i> , n. sp.	190
Fig. 3. Abactinal aspect; magnified 3 diameters.	
Fig. 4. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. XXXII. figs. 7, 8.]	
Figs. 5, 6. <i>LONCHOTASTER FORCIPIFER</i> , n. sp.	106
Fig. 5. Abactinal aspect; magnified 3 diameters.	
Fig. 6. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. XXXII. figs. 9, 10.]	

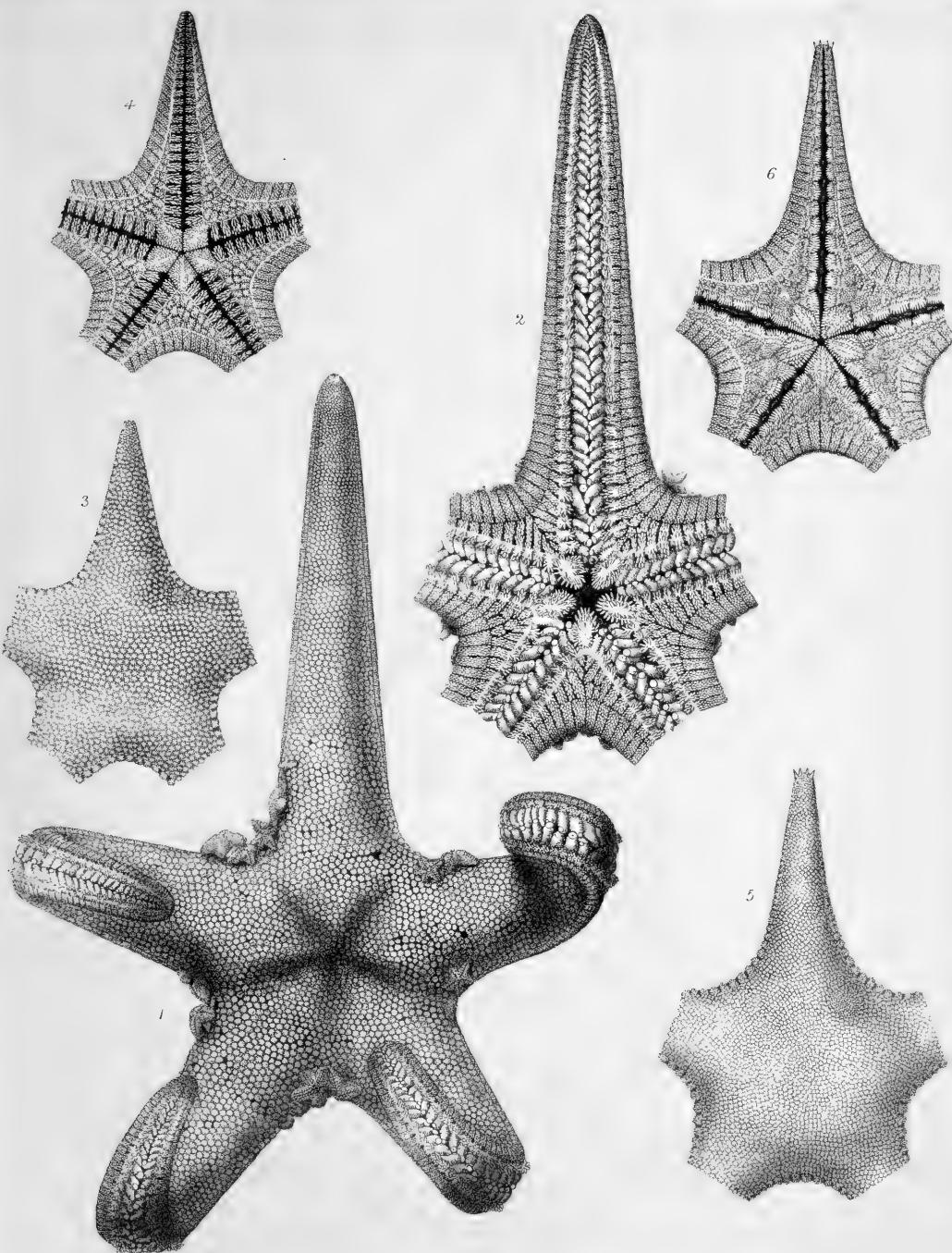
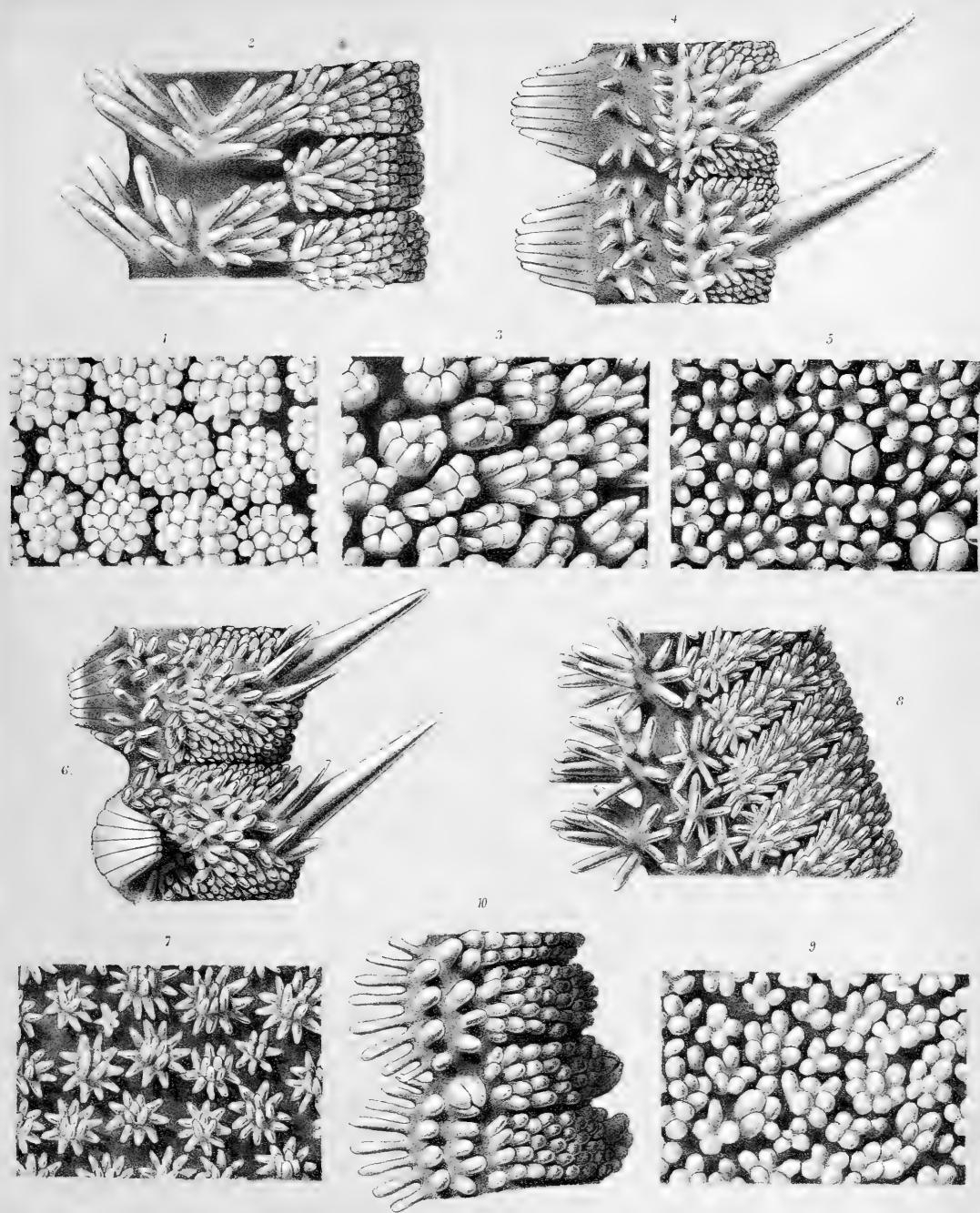


PLATE XXXII.

PLATE XXXII.

	Page
Figs. 1, 2. <i>LEPTOPTYCHASTER KERGUELENENSIS</i> , Smith,	184
Fig. 1. A portion of the abactinal surface; magnified 25 diameters.	
Fig. 2. Adambulacral and infero-marginal plates; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XXXI. figs. 1, 2.]	
Figs. 3, 4. <i>DYTASTER NOBILIS</i> , n. sp.	73
Fig. 3. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 4. Adambulacral and infero-marginal plates; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. III. figs. 1, 2.]	
Figs. 5, 6. <i>DYTASTER MADREPORIFER</i> , n. sp.	70
Fig. 5. A portion of the abactinal surface; magnified 25 diameters.	
Fig. 6. Adambulacral and infero-marginal plates; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. III. figs. 3, 4.]	
Figs. 7, 8. <i>LEPTOPTYCHASTER ANTARCTICUS</i> , n. sp.	190
Fig. 7. A portion of the abactinal surface; magnified 35 diameters.	
Fig. 8. Adambulacral and infero-marginal plates; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. XXXI. figs. 3, 4.]	
Figs. 9, 10. <i>LONCHOTASTER FORCIPIFER</i> , n. sp.	106
Fig. 9. A portion of the abactinal surface; magnified 35 diameters.	
Fig. 10. Adambulacral and infero-marginal plates; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. XXXI. figs. 5, 6.]	



1-2. *LEPTOPTYCHASTER KERGUELENENSIS*, Smith, n.sp
5-6. *DYTASTER MADREPORIFER*, n.sp

3-4. *DYTASTER NOBILIS*, n.sp
7-8. *LEPTOPTYCHASTER ANTARCTICUS*, n.sp.

9-10. *LONCHOTASTER FORCIPIFER*, n.sp

PLATE XXXIII.

PLATE XXXIII.

	Page
Figs. 1, 2. <i>ASTROPECTEN BREVISPINUS</i> , n. sp.	198
Fig. 1. Abactinal aspect; magnified 2 diameters.	
Fig. 2. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XXXVII. figs. 1-3.]	
Figs. 3, 4. <i>ASTROPECTEN PECTINATUS</i> , n. sp.	202
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XXXVII. figs. 4-6.]	
Figs. 5, 6. <i>ASTROPECTEN HERMATOPHILUS</i> , n. sp.	207
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XXXVII. figs. 7-9.]	
Figs. 7, 8. <i>ASTROPECTEN MONACANTHUS</i> , n. sp.	216
Fig. 7. Abactinal aspect; magnified 3 diameters.	
Fig. 8. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. XXXVII. figs. 10-12.]	

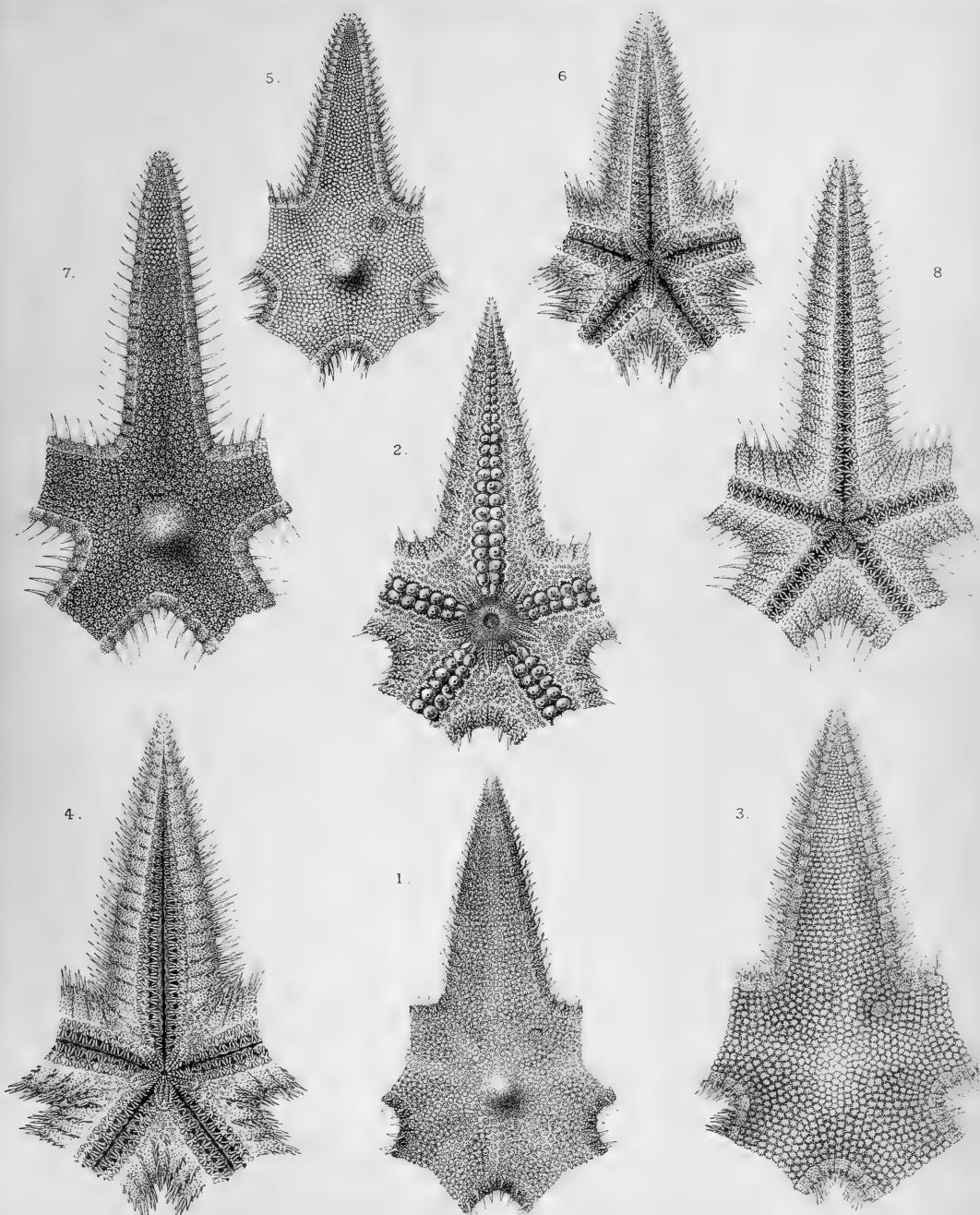


PLATE XXXIV.

PLATE XXXIV.

	Page
Figs. 1, 2. ASTROPECTEN ACANTHIFER, n. sp.	203
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XXXVIII. figs. 1-3.]	
Figs. 3, 4. ASTROPECTEN IMBELLIS, n. sp.	206
Fig. 3. Abactinal aspect; magnified 3 diameters.	
Fig. 4. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. XXXVIII. figs. 4-6.]	
Figs. 5, 6. ASTROPECTEN MESACTUS, n. sp.	219
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XXXVIII. figs. 7-9.]	

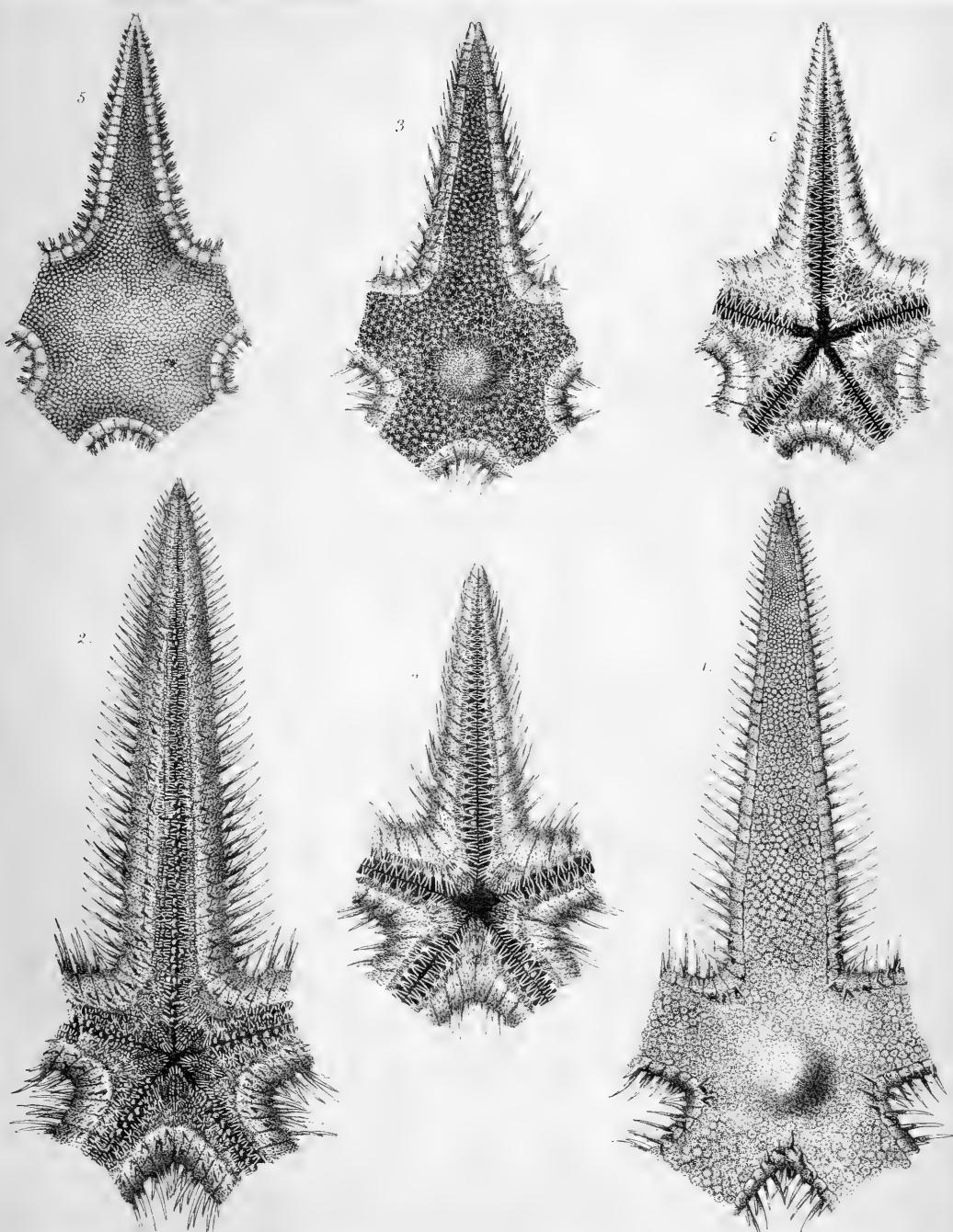


PLATE XXXV.

PLATE XXXV.

	Page
Figs. 1, 2. <i>ASTROPECTEN PONTOPORÆUS</i> , n. sp.	210
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XXXVIII. figs. 10-12.]	
Figs. 3, 4. <i>ASTROPECTEN GRANULATUS</i> , Müller and Troschel,	215
Fig. 3. Abactinal aspect; magnified 3 diameters.	
Fig. 4. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. XXXIX. figs. 4-6.]	
Figs. 5, 6. <i>ASTROPECTEN CINGULATUS</i> , n. sp.	218
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XXXIX. figs. 1-3.]	

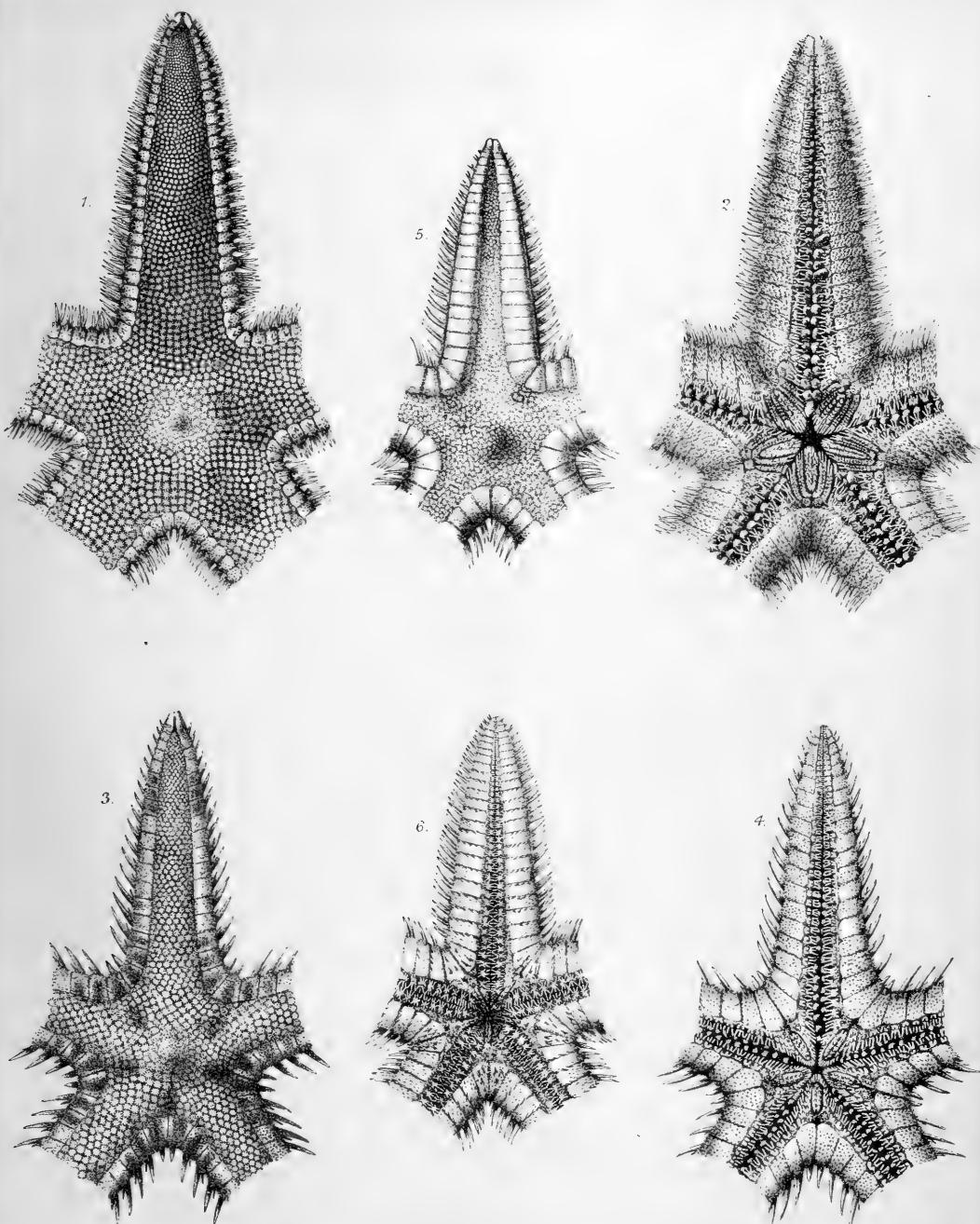


PLATE XXXVI.

(ZOOLOGICAL EXP.—PART LI.—1888.)—T

PLATE XXXVI.

	Page
Figs. 1, 2. <i>BATHYBIASTER LORIPES</i> , n. sp.	240
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XLII. figs. 1, 2.]	
Figs. 3, 4. <i>ASTROPECTEN ZEBRA</i> , n. sp.	212
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XXXIX. figs. 7-9.]	
Figs. 5, 6. <i>DYTASTER AEQUITIVOCUS</i> , n. sp.	75
Fig. 5. Abactinal aspect; magnified 4 diameters.	
Fig. 6. Actinal aspect; magnified 4 diameters.	
[For magnified details of this species see Pl. XXXIX. figs. 10-12.]	

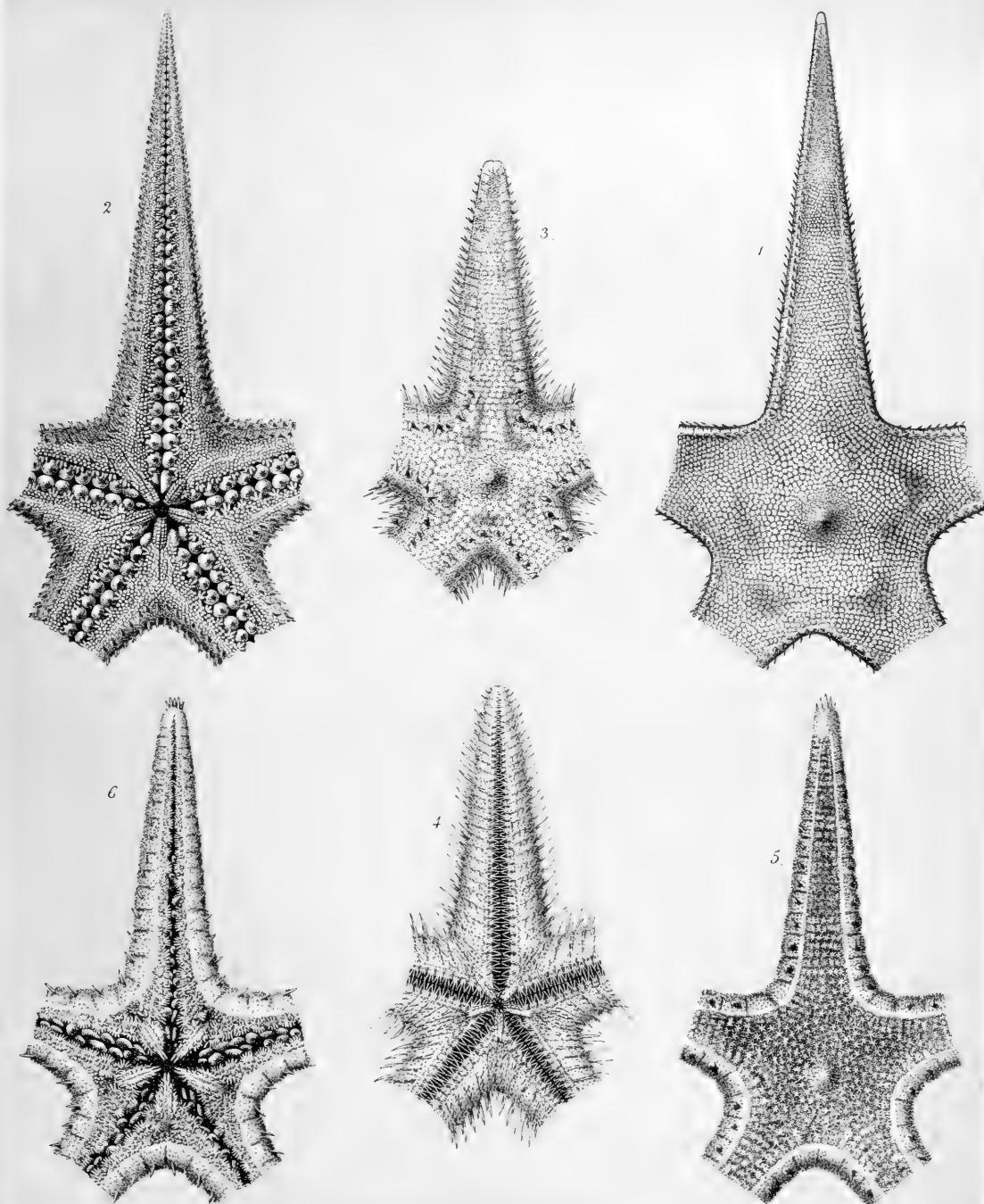
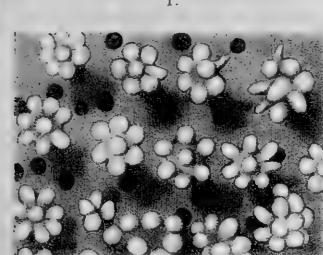


PLATE XXXVII.

PLATE XXXVII.

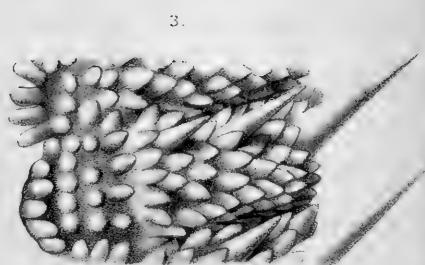
	Page
Figs. 1-3. <i>ASTROPECTEN BREVISPINUS</i> , n. sp.	198
Fig. 1. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 2. Mouth-plates; magnified 12 diameters.	
Fig. 3. Adambulacral and infero-marginal plates; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XXXIII. figs. 1, 2.]	
Figs. 4-6. <i>ASTROPECTEN PECTINATUS</i> , n. sp.	202
Fig. 4. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 5. Mouth-plates; magnified 10 diameters.	
Fig. 6. Adambulacral and infero-marginal plates; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. XXXIII. figs. 3, 4.]	
Figs. 7-9. <i>ASTROPECTEN HERMATOPHILUS</i> , n. sp.	207
Fig. 7. A portion of the abactinal surface; magnified 25 diameters.	
Fig. 8. Mouth-plates; magnified 10 diameters.	
Fig. 9. Adambulacral and infero-marginal plates; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XXXIII. figs. 5, 6.]	
Figs. 10-12. <i>ASTROPECTEN MONACANTHUS</i> , n. sp.	216
Fig. 10. A portion of the abactinal surface; magnified 25 diameters.	
Fig. 11. Mouth-plates; magnified 20 diameters.	
Fig. 12. Adambulacral and infero-marginal plates; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. XXXIII. figs. 7, 8.]	



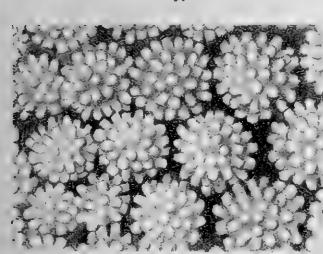
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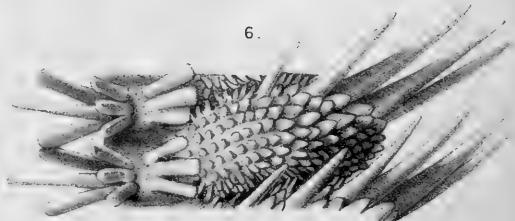
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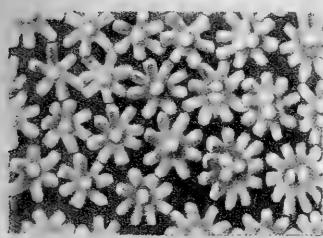
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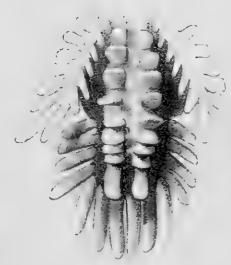
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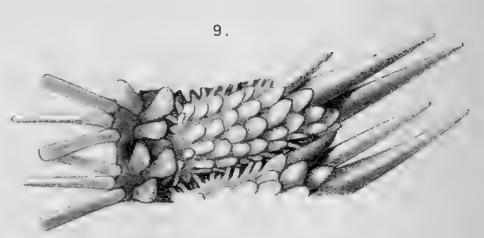
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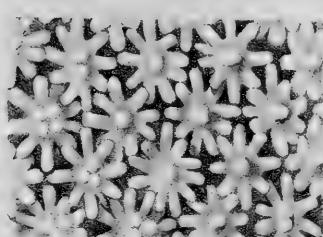
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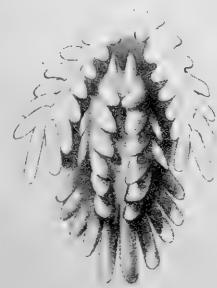
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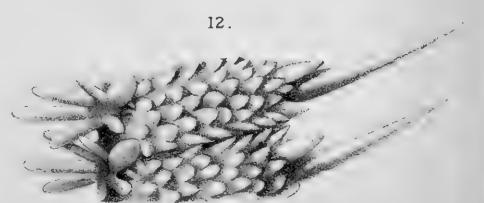
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1-3. *ASTROPECTEN BREVISPINUS*, n.sp.7-9. *ASTROPECTEN HERMATOPHILUS*, n.sp.4-6. *ASTROPECTEN PECTINATUS*, n.sp.10-12. *ASTROPECTEN MONACANTHUS*, n.sp.

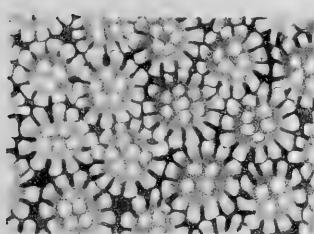
PLATE XXXVIII.

(ZOOLOGICAL EXP.—PART LI.—1888.)—U

PLATE XXXVIII.

	Page
Figs. 1-3. <i>ASTROPECTEN ACANTHIFER</i> , n. sp.	203
Fig. 1. A portion of the abactinal surface ; magnified 15 diameters.	
Fig. 2. Mouth-plates ; magnified 6 diameters.	
Fig. 3. Adambulacral and infero-marginal plates ; magnified 7 diameters.	
[For macroscopic figures of this species see Pl. XXXIV. figs. 1, 2.]	
Figs. 4-6. <i>ASTROPECTEN IMBELLIS</i> , n. sp.	206
Fig. 4. A portion of the abactinal surface ; magnified 25 diameters.	
Fig. 5. Mouth-plates ; magnified 15 diameters.	
Fig. 6. Adambulacral and infero-marginal plates ; magnified 17 diameters.	
[For macroscopic figures of this species see Pl. XXXIV. figs. 3, 4.]	
Figs. 7-9. <i>ASTROPECTEN MESACTUS</i> , n. sp.	219
Fig. 7. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 8. Mouth-plates ; magnified 12 diameters.	
Fig. 9. Adambulacral and infero-marginal plates ; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XXXIV. figs. 5, 6.]	
Figs. 10-12. <i>ASTROPECTEN PONTOPORÆUS</i> , n. sp.	210
Fig. 10. A portion of the abactinal surface ; magnified 15 diameters.	
Fig. 11. Mouth-plates ; magnified 6 diameters.	
Fig. 12. Adambulacral and infero-marginal plates ; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. XXXV. figs. 1, 2.]	

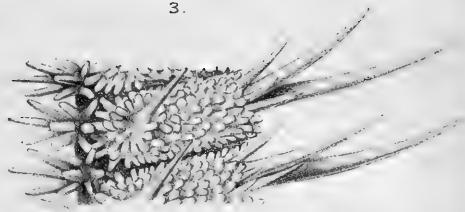
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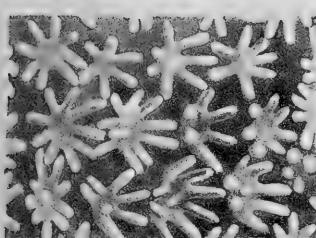
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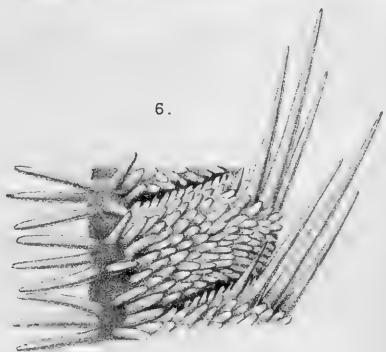
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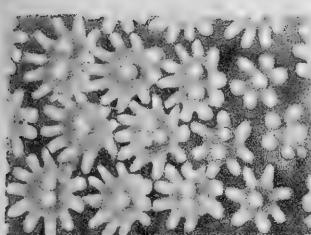
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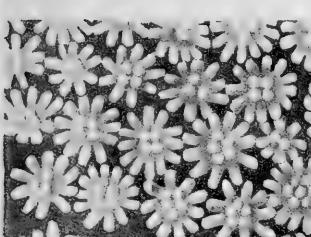
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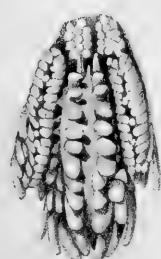
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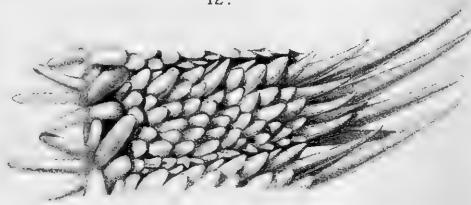


PLATE XXXIX.

PLATE XXXIX.

	Page
Figs. 1-3. <i>ASTROPECTEN CINGULATUS</i> , n. sp.	218

Fig. 1. A portion of the abactinal surface ; magnified 20 diameters.

Fig. 2. Mouth-plates ; magnified 15 diameters.

Fig. 3. Adambulacral and infero-marginal plates ; magnified 12 diameters.

[For macroscopic figures of this species see Pl. XXXV. figs. 5, 6.]

Figs. 4-6. <i>ASTROPECTEN GRANULATUS</i> , Müller and Troschel,	215
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Fig. 4. A portion of the abactinal surface ; magnified 30 diameters.

Fig. 5. Mouth-plates ; magnified 15 diameters.

Fig. 6. Adambulacral and infero-marginal plates ; magnified 18 diameters.

[For macroscopic figures of this species see Pl. XXXV. figs. 3, 4.]

Figs. 7-9. <i>ASTROPECTEN ZEBRA</i> , n. sp.	212
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Fig. 7. A portion of the abactinal surface ; magnified 20 diameters.

Fig. 8. Mouth-plates ; magnified 12 diameters.

Fig. 9. Adambulacral and infero-marginal plates ; magnified 12 diameters.

[For macroscopic figures of this species see Pl. XXXVI. figs. 3, 4.]

Figs. 10-12. <i>DYTASTER EQUIVOCUS</i> , n. sp.	75
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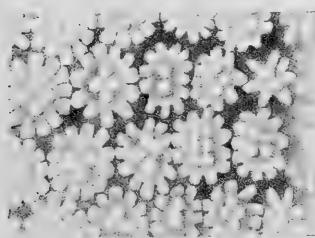
Fig. 10. A portion of the abactinal surface ; magnified 30 diameters.

Fig. 11. Mouth-plates ; magnified 15 diameters.

Fig. 12. Adambulacral and infero-marginal plates ; magnified 30 diameters.

[For macroscopic figures of this species see Pl. XXXVI. figs. 5, 6.]

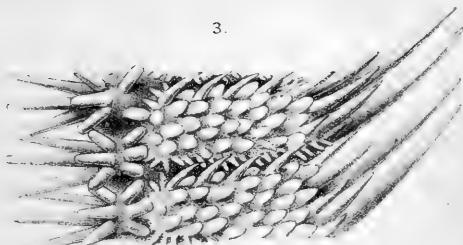
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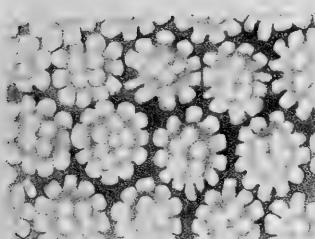
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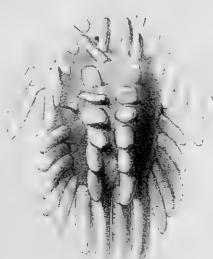
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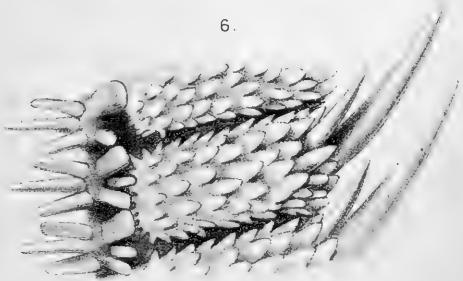
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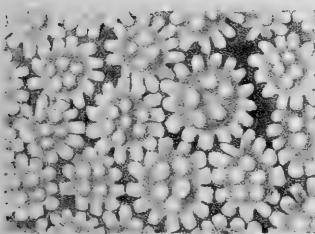
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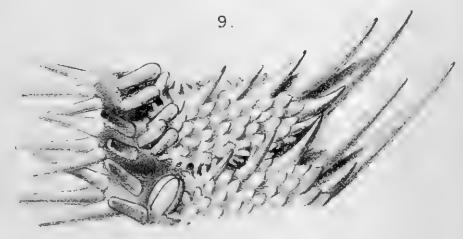
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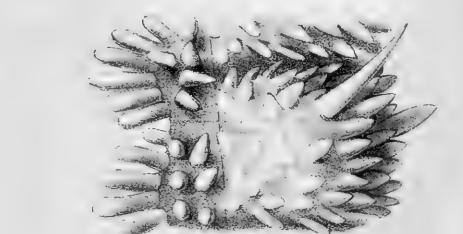


PLATE XL.

PLATE XL.

Figs. 1, 2. *PSILASTER ACUMINATUS*, n. sp.

Page
225

Fig. 1. Abactinal aspect; magnified 2 diameters.

Fig. 2. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. XLII. figs. 7, 8.]

Figs. 3-6. *PHOXASTER PUMILUS*, n. sp.

236

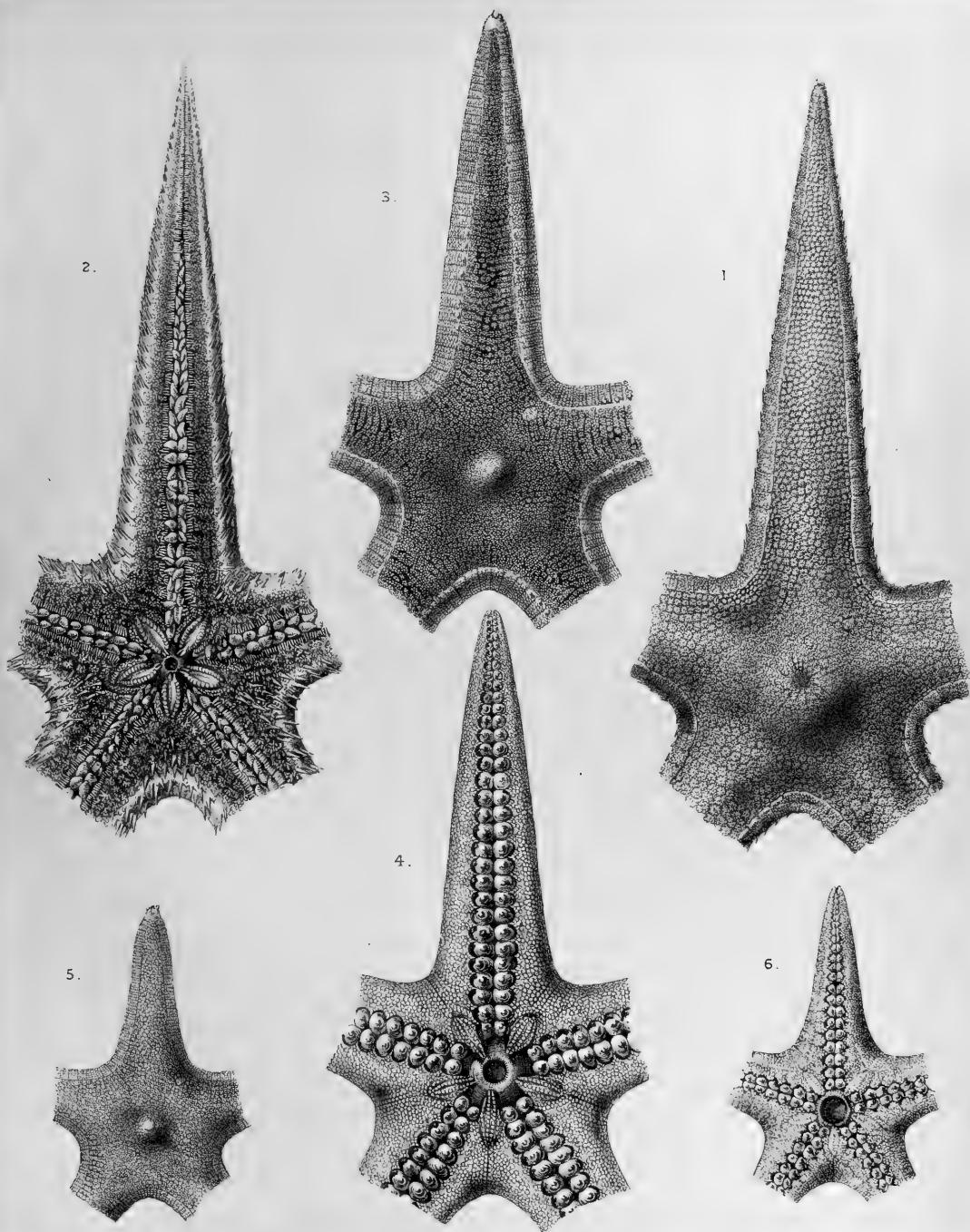
Fig. 3. Abactinal aspect; magnified 3 diameters.

Fig. 4. Actinal aspect; magnified 3 diameters.

Fig. 5. Abactinal aspect of a young example; magnified 3 diameters.

Fig. 6. Actinal aspect of a young example; magnified 3 diameters.

[For magnified details of this species see Pl. XV. figs. 7-11.]



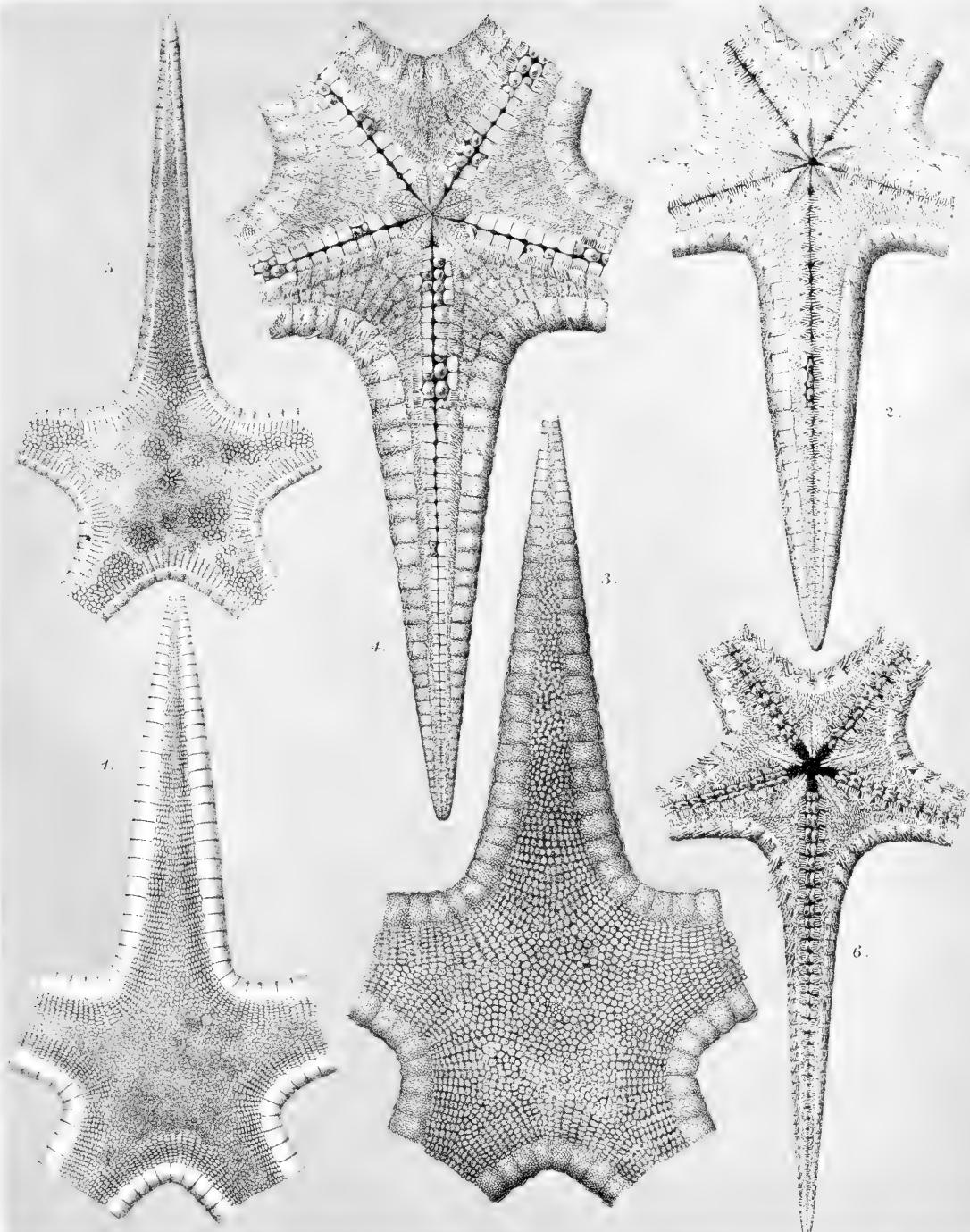
1-2. *PSILASTER ACUMINATUS*, n. sp.

3-6. *PHOXASTER PUMILUS*, n. sp.

PLATE XLI.

PLATE XLI.

	Page
Figs. 1, 2. <i>PSILASTER CASSIOPE</i> , n. sp.	228
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. VII. figs. 9, 10.]	
Figs. 3, 4. <i>PSILASTER PATAGIATUS</i> , n. sp.	232
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. VII. figs. 11, 12.]	
Figs. 5, 6. <i>PSILASTER GRACILIS</i> , n. sp.	230
Fig. 5. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 6. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XLII. figs. 9-11.]	



1-2. *PSILASTER CASSIOPE*, n. sp. 3-4. *PSILASTER PATAGIATUS*, n. sp.
5-6. *PSILASTER GRACILIS*, n. sp.

PLATE XLII.

PLATE XLII.

	Page
Figs. 1, 2. <i>BATHYBIASTER LORIPES</i> , n. sp.	240 .
Fig. 1. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 2. Adambulacral and infero-marginal plates ; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XXXVI. figs. 1, 2.]	
Figs. 3, 4. <i>PSEUDARCHASTER DISCUS</i> , n. sp.	110
Fig. 3. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 4. Adambulacral and infero-marginal plates ; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. XIX. figs. 1, 2.]	
Figs. 5, 6. <i>PSEUDARCHASTER INTERMEDIUS</i> , n. sp.	115
Fig. 5. A portion of the abactinal surface ; magnified 18 diameters.	
Fig. 6. Adambulacral and infero-marginal plates ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XIX. figs. 3, 4.]	
Figs. 7, 8. <i>PSILASTER ACUMINATUS</i> , n. sp.	225
Fig. 7. A portion of the abactinal surface ; magnified 18 diameters.	
Fig. 8. Adambulacral and infero-marginal plates ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XL. figs. 1, 2.]	
Figs. 9-11. <i>PSILASTER GRACILIS</i> , n. sp.	230
Fig. 9. A portion of the abactinal surface ; magnified 25 diameters.	
Fig. 10. Adambulacral and infero-marginal plates ; magnified 15 diameters.	
Fig. 11. Mouth-plates ; magnified 7 diameters.	
[For macroscopic figures of this species see Pl. XLI. figs. 5, 6.]	

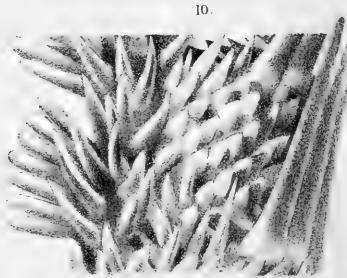
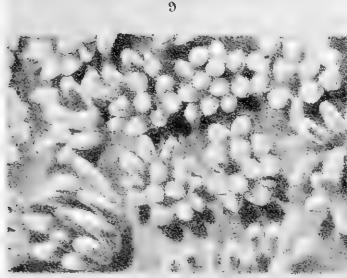
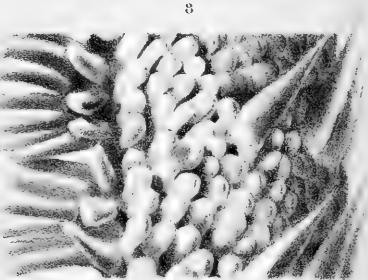
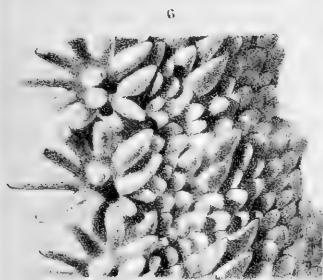
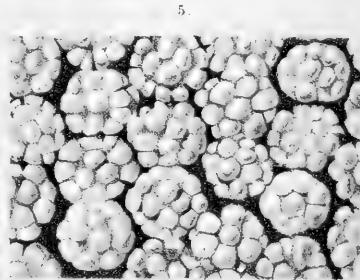
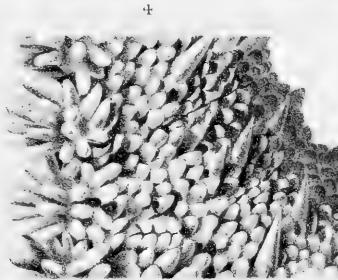
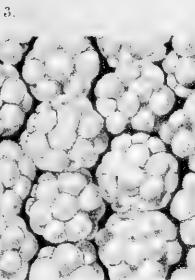
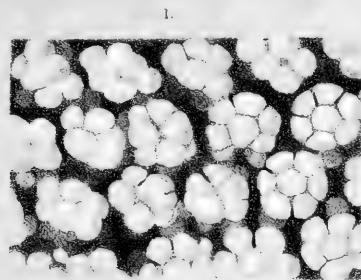


PLATE XLIII.

PLATE XLIII.

Page
248

Figs. 1, 2. *LUIDIA ASPERA*, n. sp.

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. XLV. figs. 9, 10.]

254

Figs. 3, 4. *LUIDIA LONGISPINA*, n. sp.

Fig. 3. Abactinal aspect; magnified 2 diameters.

Fig. 4. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. XLV. figs. 3, 4.]

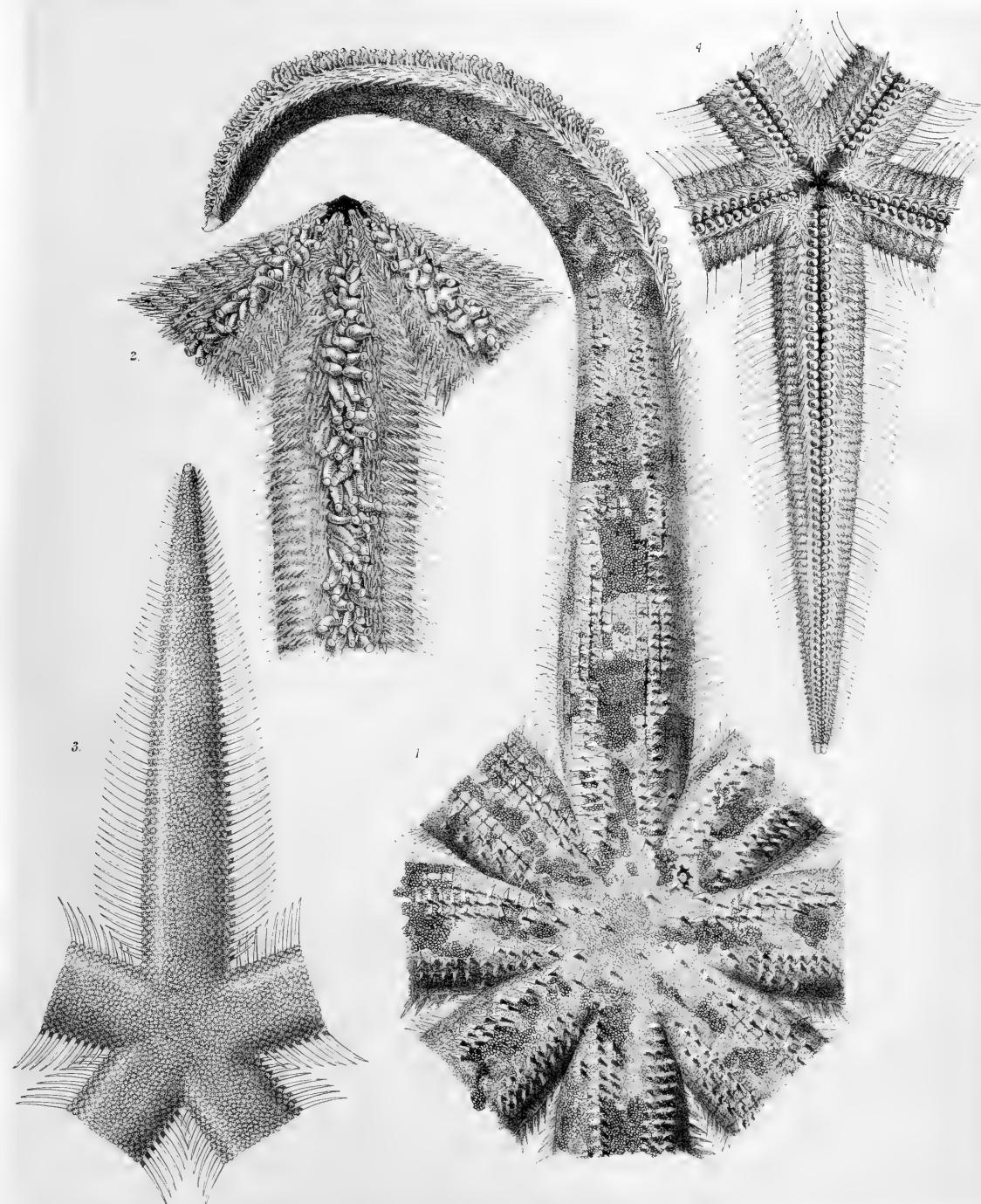


PLATE XLIV.

PLATE XLIV.

	Page
Figs. 1, 2. <i>LUIDIA AFRICANA</i> , n. sp.	256

Fig. 1. Abactinal aspect ; natural size.

Fig. 2. Actinal aspect ; natural size.

[For magnified details of this species see Pl. XLV. figs. 1, 2.]

Figs. 3, 4. <i>LUIDIA LIMBATA</i> , n. sp.	251
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Fig. 3. Abactinal aspect ; magnified $1\frac{1}{2}$ diameters.

Fig. 4. Actinal aspect ; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. XLV. figs. 7, 8.]

Figs. 5, 6. <i>LUIDIA FORFICIFER</i> , n. sp.	258
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Fig. 5. Abactinal aspect ; magnified 2 diameters.

Fig. 6. Actinal aspect ; magnified 2 diameters.

[For magnified details of this species see Pl. XLV. figs. 5, 6.]

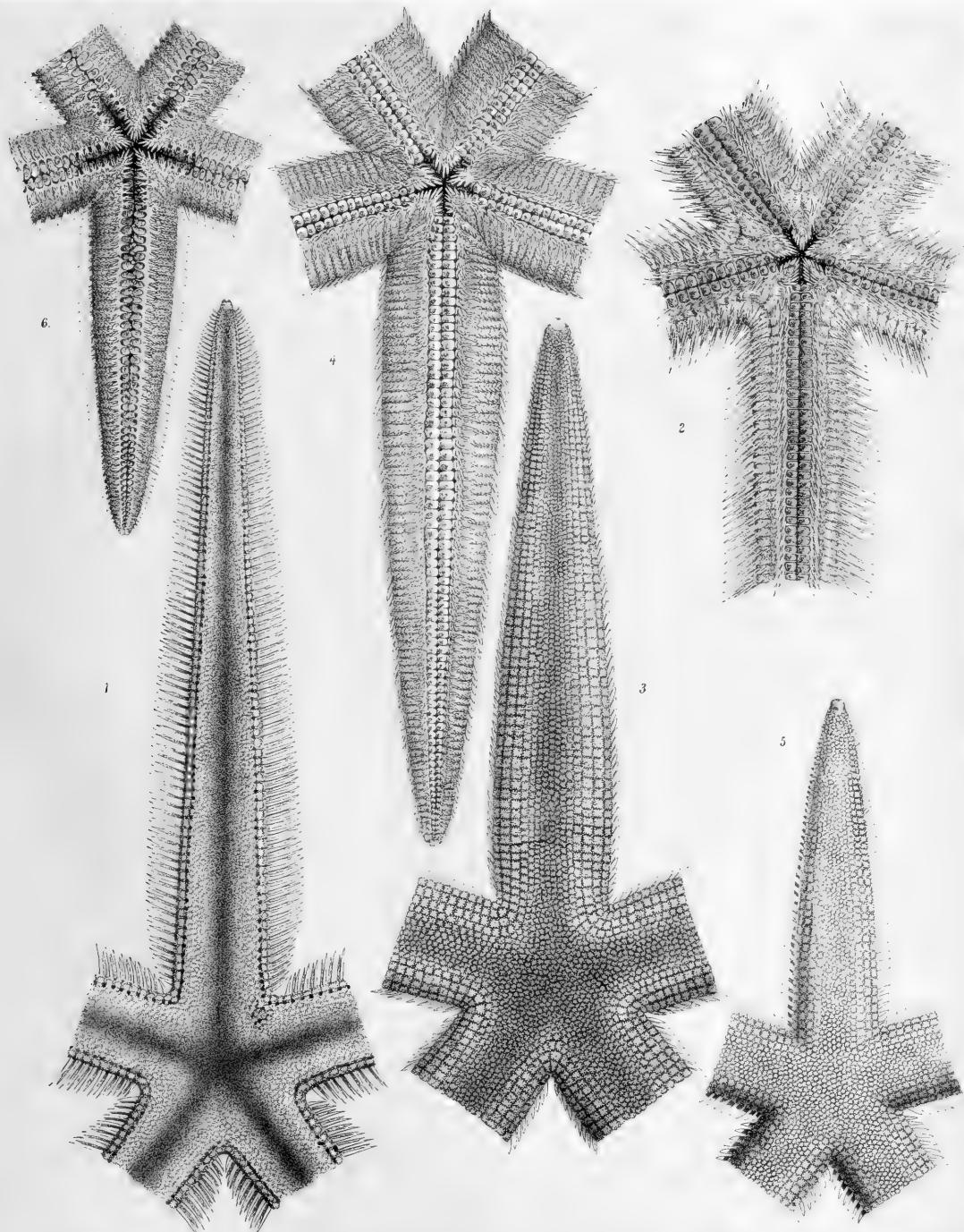
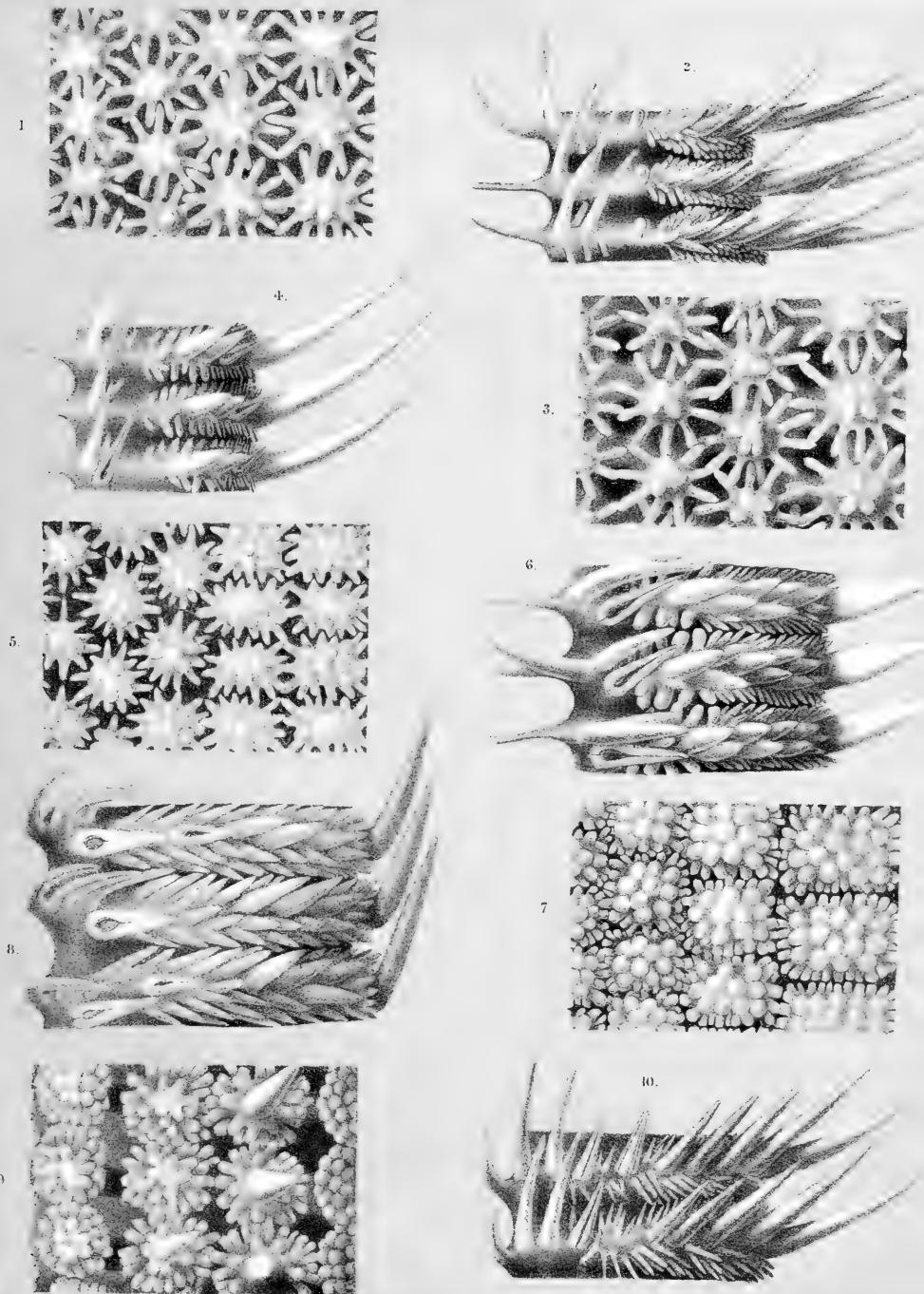


PLATE XLV.

PLATE XLV.

	Page
Figs. 1, 2. <i>LUIDIA AFRICANA</i> , n. sp.	256
Fig. 1. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 2. Adambulacral and infero-marginal plates; magnified 6 diameters.	
[For macroscopic figures of this species see Pl. XLIV. figs. 1, 2.]	
Figs. 3, 4. <i>LUIDIA LONGISPINA</i> , n. sp.	254
Fig. 3. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 4. Adambulacral and infero-marginal plates; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XLIII. figs. 3, 4.]	
Figs. 5, 6. <i>LUIDIA FORFICIFER</i> , n. sp.	258
Fig. 5. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 6. Adambulacral and infero-marginal plates; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XLIV. figs. 5, 6.]	
Figs. 7, 8. <i>LUIDIA LIMBATA</i> , n. sp.	251
Fig. 7. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 8. Adambulacral and infero-marginal plates; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XLIV. figs. 3, 4.]	
Figs. 9, 10. <i>LUIDIA ASPERA</i> , n. sp.	248
Fig. 9. A portion of the abactinal surface; magnified 10 diameters.	
Fig. 10. Adambulacral and infero-marginal plates; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. XLIII. figs. 1, 2.]	



1-2. *LUIDIA AFRICANA*, n. sp.

5-6. *LUIDIA FORFICIFER*, n. sp.

3-4. *LUIDIA LONGISPINA*, n. sp.

7-8. *LUIDIA LIMBATA*, n. sp.

9-10. *LUIDIA ASPERA*, n. sp.

PLATE XLVI.

PLATE XLVI.

Page
272

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

[For magnified details of this species see Pl. XLIX. figs. 1, 2.]

Figs. 3, 4. PENTAGONASTER PATAGONICUS, n. sp. 269

Fig. 3. Abactinal aspect; natural size.

Fig. 4. Actinal aspect; natural size.

[For magnified details of this species see Pl. XLIX. figs. 3, 4.]

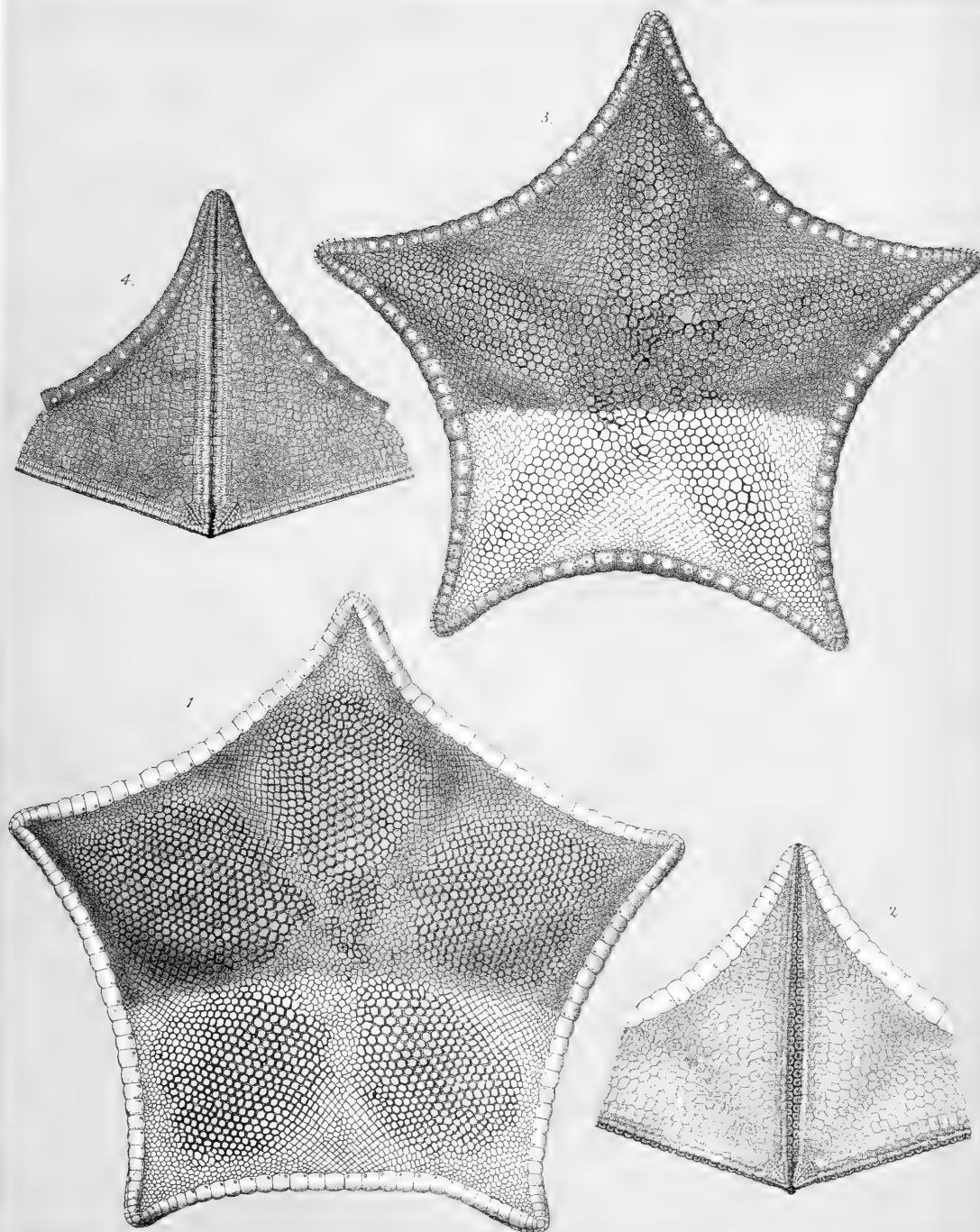


PLATE XLVII.

PLATE XLVII.

Figs. 1, 2. <i>GNATHASTER MERIDIONALIS</i> , Smith, sp.	Page 287
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Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

[For macroscopic figures of a young example see Pl. XLVIII. figs. 5, 6; for magnified details of the same see Pl. XLIX. figs. 11, 12.]

Figs. 3, 4. <i>MIMASTER COGNATUS</i> , n. sp.	336
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Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. LXII. figs. 4, 5.]

Error in the legend of the Plate:

*For "n. sp." after *GNATHASTER MERIDIONALIS* read "Smith, sp."*

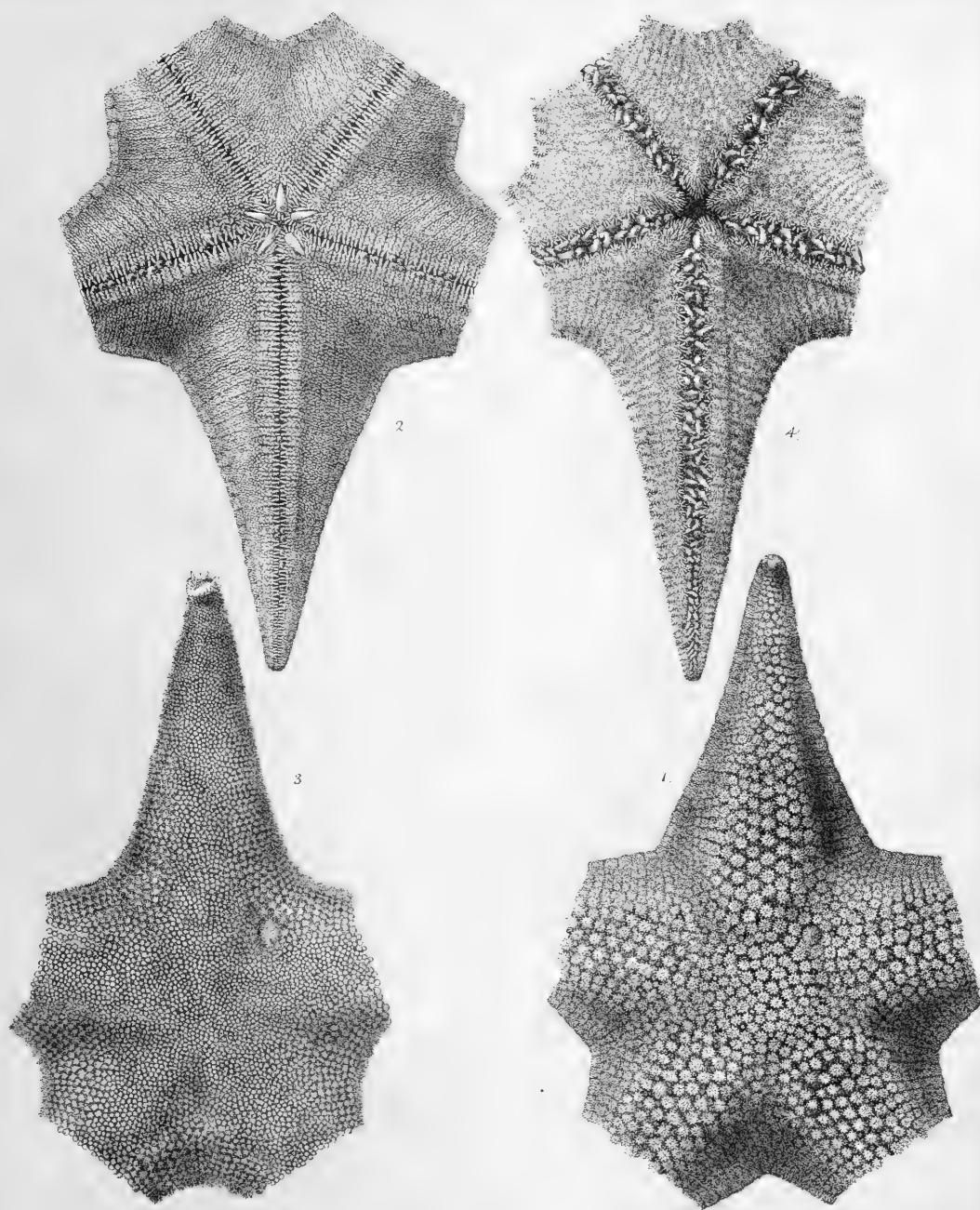
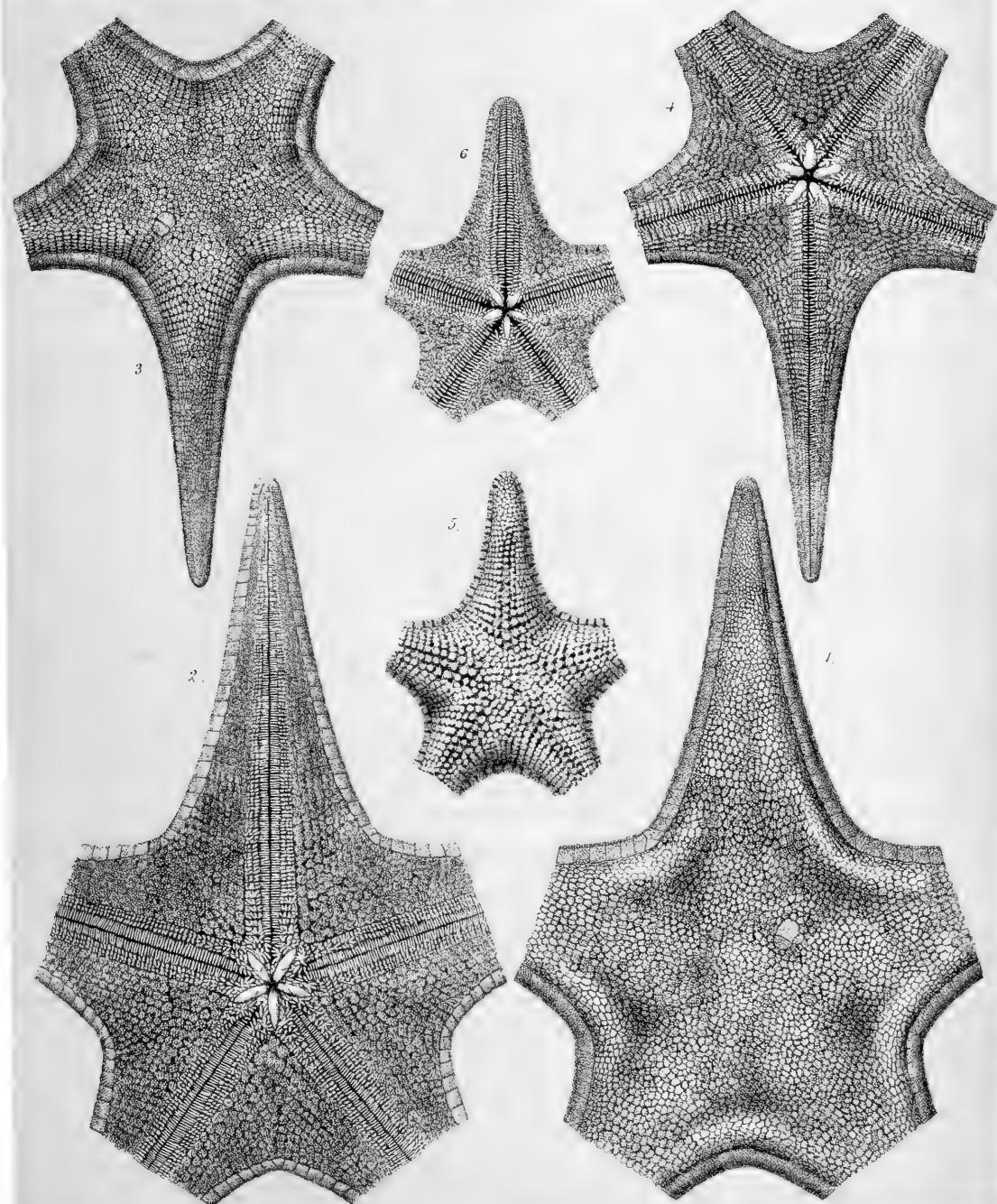


PLATE XLVIII.

(ZOOL. CHALL. EXP.—PART LI.—1888.)—2 B

PLATE XLVIII.

	Page
Figs 1, 2. <i>GNATHASTER ELONGATUS</i> , n. sp.	288
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XLIX. figs. 5-8; for macroscopic figures of a young example see Pl. XIX. figs. 5, 6.]	
Figs. 3, 4. <i>GNATHASTER ELONGATUS</i> , n. sp. (Variety),	288
Fig. 3. Abactinal aspect of an attenuate variety; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect of an attenuate variety; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this variety see Pl. XLIX. figs. 9, 10.]	
Figs. 5, 6. <i>GNATHASTER MERIDIONALIS</i> , Smith, sp.	287
Fig. 5. Abactinal aspect of a young example; magnified 3 diameters.	
Fig. 6. Actinal aspect of a young example; magnified 3 diameters.	
[For magnified details of this example see Pl. XLIX. figs. 11, 12; for macroscopic figures of an adult example see Pl. XLVII. figs. 1, 2.]	



W.H. Crowther del., Hollickton

Harhart imp.

1-2. *CNATHASTER ELONGATUS*, n.sp.

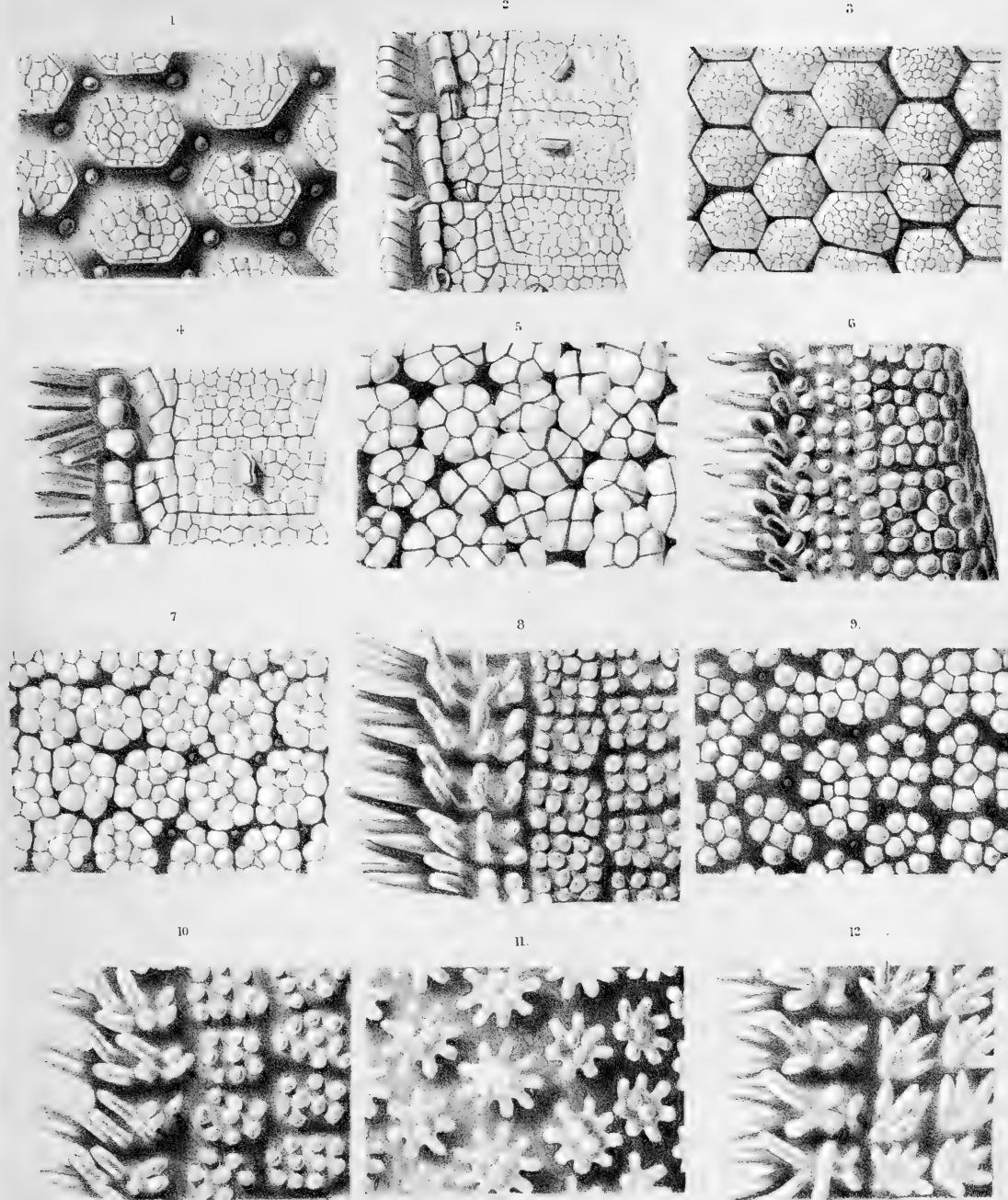
3-4. *CNATHASTER ELONGATUS*, n.sp. (Var.)

5-6. *CNATHASTER MERIDIONALIS*, Smith, sp (juv.)

PLATE XLIX.

PLATE XLIX.

	Page
Figs. 1, 2. <i>PENTAGONASTER JAPONICUS</i> , n. sp.	272
Fig. 1. A portion of the abactinal surface; magnified 8 diameters.	
Fig. 2. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XLVI. figs. 1, 2.]	
Figs. 3, 4. <i>PENTAGONASTER PATAGONICUS</i> , n. sp.	269
Fig. 3. A portion of the abactinal surface; magnified 10 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XLVI. figs. 3, 4.]	
Figs. 5, 6. <i>GNATHASTER ELONGATUS</i> , n. sp.	288
Fig. 5. A portion of the abactinal surface of a young example; magnified 20 diameters.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface of a young example; magnified 15 diameters.	
[For macroscopic figures of this example see Pl. XIX. figs. 5, 6.]	
Figs. 7, 8. <i>GNATHASTER ELONGATUS</i> , n. sp.	288
Fig. 7. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 8. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XLVIII. figs. 1, 2.]	
Figs. 9, 10. <i>GNATHASTER ELONGATUS</i> , n. sp. (Variety),	288
Fig. 9. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 10. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
[For macroscopic figures of this variety see Pl. XLVIII. figs. 3, 4.]	
Figs. 11, 12. <i>GNATHASTER MERIDIONALIS</i> , Smith, sp.	287
Fig. 11. A portion of the abactinal surface of a young example; magnified 20 diameters.	
Fig. 12. Adambulacral plates and adjacent portion of the actinal surface of a young example; magnified 30 diameters.	
[For macroscopic figures of this example see Pl. XLVIII. figs. 5, 6; for those of an adult example see Pl. XLVII. figs. 1, 2.]	



1-2. *PENTAGONASTER JAPONICUS*, n.sp.
 5-6. *GNATHASTER ELONGATUS*, n.sp., (juv).
 9-10. *GNATHASTER ELONGATUS*, n.sp., (var.).

3-4. *PENTAGONASTER PATAGONICUS*, n.sp
 7-8. *GNATHASTER ELONGATUS*, n.sp
 11-12. *GNATHASTER MERIDIONALIS*, Smith, sp. (juv).

PLATE L.

PLATE L.

	Page
Figs. 1, 2. <i>NYMPHASTER SYMBOLICUS</i> , n. sp.	297
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LIII. figs. 7, 8.]	
Figs. 3, 4. <i>NYMPHASTER PROTENTUS</i> , n. sp.	303
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters. *	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LIII. figs. 9, 10.]	

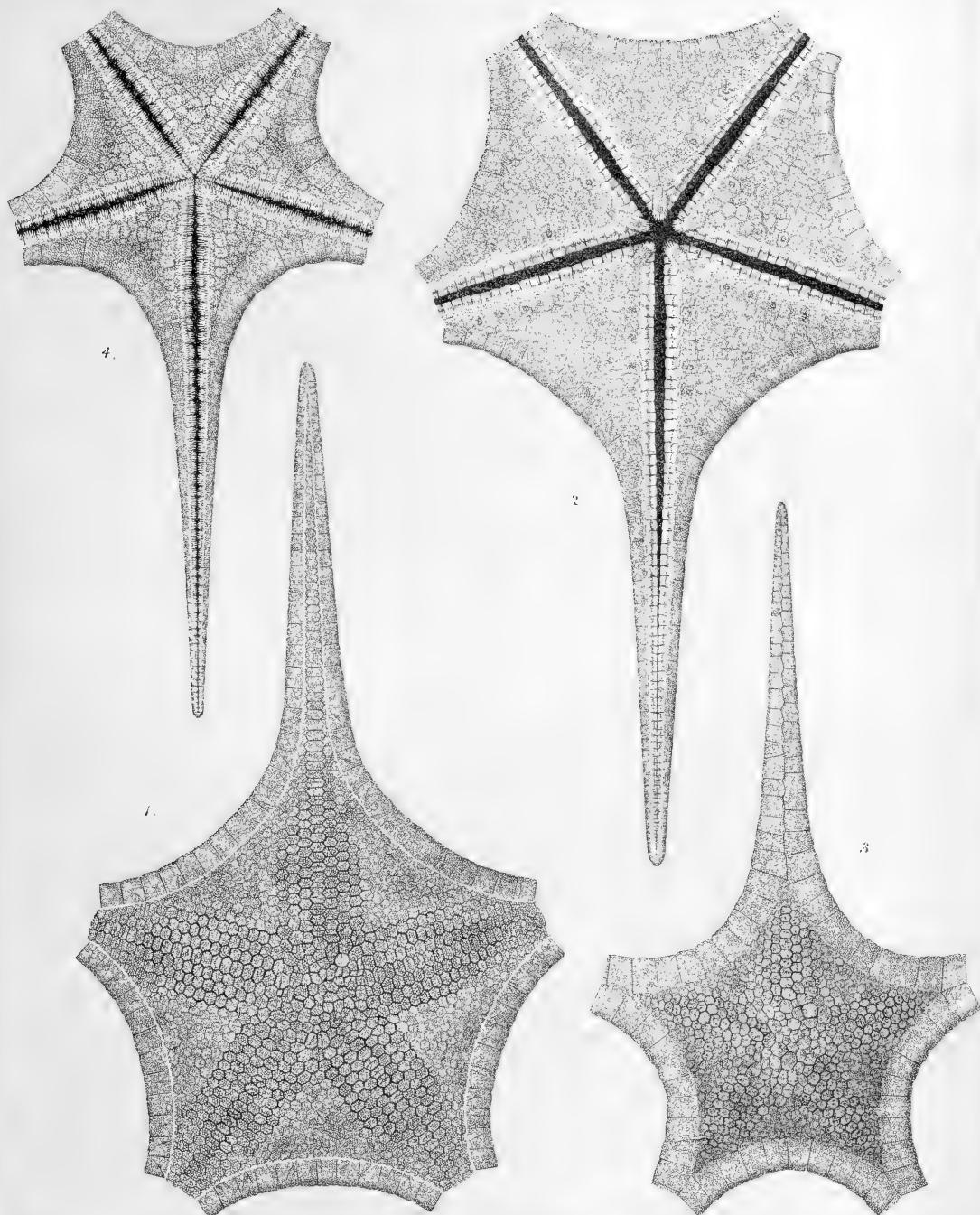


PLATE LI.

PLATE LI.

	Page
Figs. 1, 2. <i>NYMPHASTER ALBIDUS</i> , n. sp.	306

Fig. 1. Abactinal aspect; magnified 2 diameters.

Fig. 2. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. LIII. figs. 5, 6.]

Figs. 3, 4. <i>PARAGONASTER CYLINDRATUS</i> , n. sp.	314
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Fig. 3. Abactinal aspect; magnified 2 diameters.

Fig. 4. Actinal aspect; magnified 2 diameters.

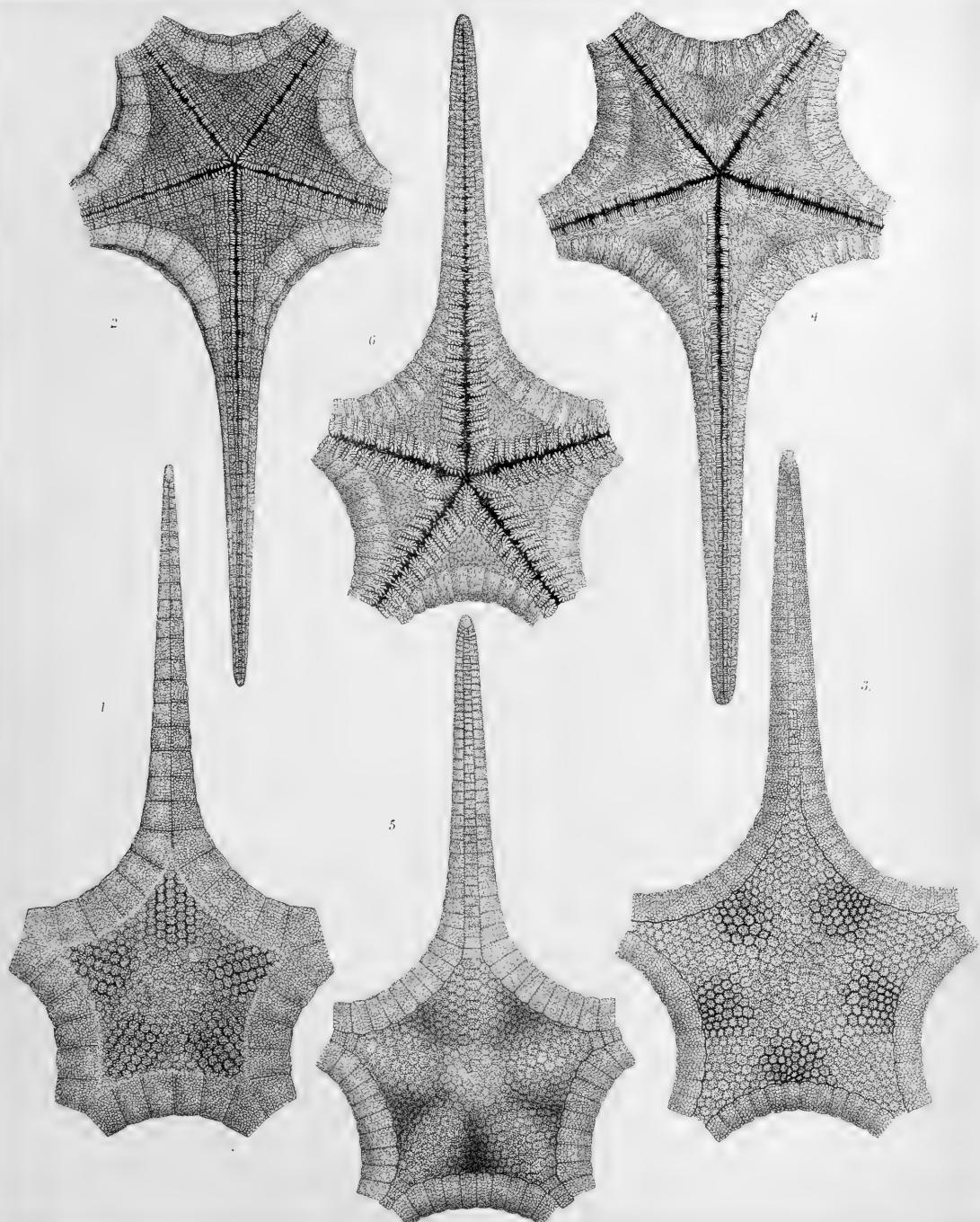
[For magnified details of this species see Pl. LIII. figs. 3, 4.]

Figs. 5, 6. <i>PARAGONASTER CTENIPES</i> , n. sp.	311
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Fig. 5. Abactinal aspect; magnified 2 diameters.

Fig. 6. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. LIII. figs. 1, 2.]



1-2. *NYMPHASTER ALBIDUS*, n. sp. 3-4. *PARAGONASTER CYLINDRATUS*, n. sp.
5-6. *PARAGONASTER CTENIPES*, n. sp.

PLATE LII.

PLATE LII.

	Page
Figs. 1, 2. <i>PENTAGONASTER ARCUATUS</i> , n. sp.	277
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XVIII. figs. 5, 6.]	
Figs. 3, 4. <i>NYMPHASTER BIPUNCTUS</i> , n. sp.	301
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. LIII. figs. 11, 12.]	
Figs. 5-8. <i>GYMNASTERIA CARINIFERA</i> (Lamarck), von Martens,	357
Fig. 5. Abactinal aspect of a young example; magnified 2 diameters.	
Fig. 6. Actinal aspect of a young example; magnified 2 diameters.	
Fig. 7. Adamambulacral plates and adjacent portion of the actinal surface of the same example; magnified 10 diameters.	
Fig. 8. A portion of the abactinal surface of the same; magnified 10 diameters.	

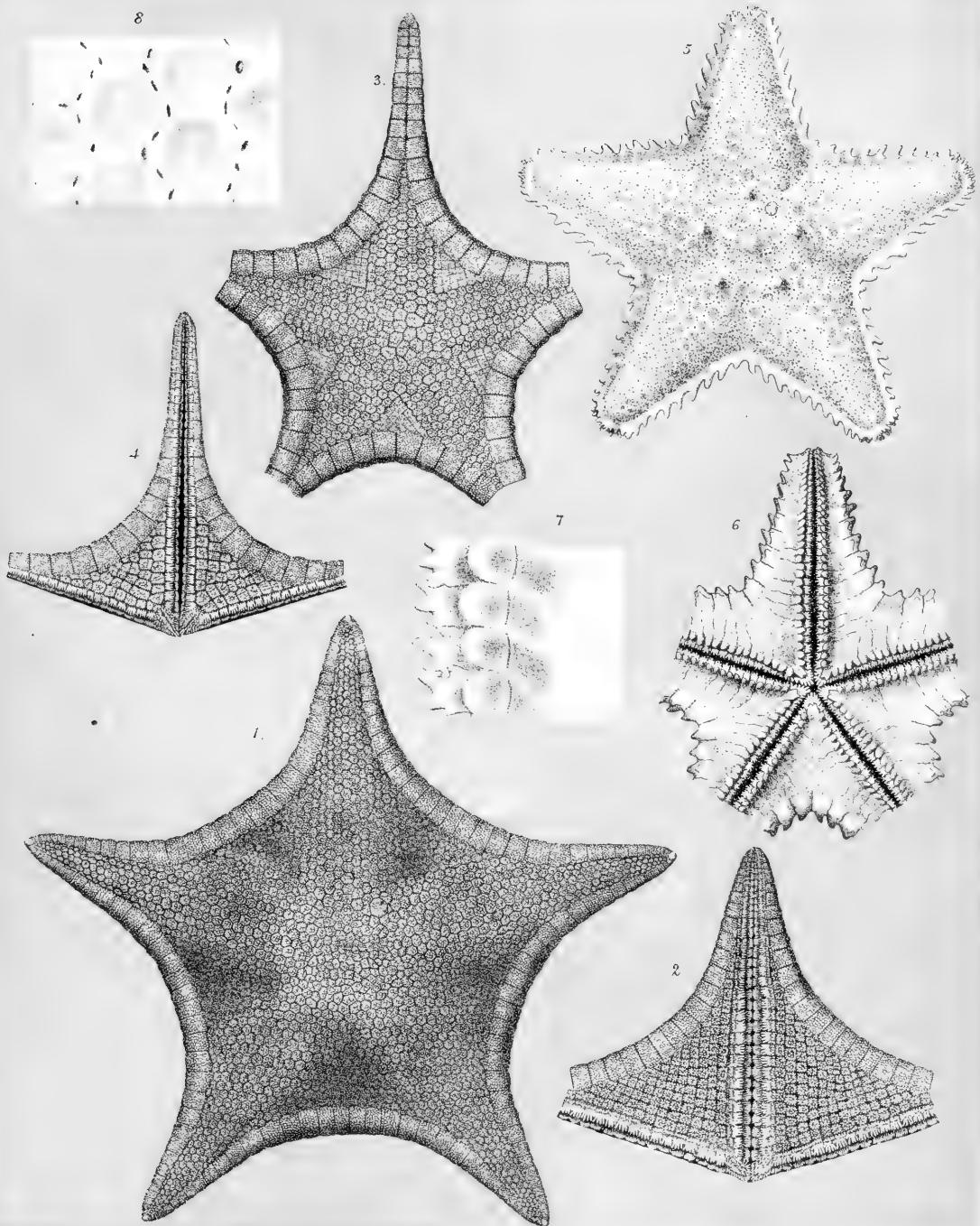


PLATE LIII.

PLATE LIII.

	Page
Figs. 1, 2. <i>PARAGONASTER CTENIPES</i> , n. sp.	311
Fig. 1. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 2. Adambulacral and infero-marginal plates; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. LI. figs. 5, 6.]	
Figs. 3, 4. <i>PARAGONASTER CYLINDRATUS</i> , n. sp.	314
Fig. 3. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 4. Adambulacral and infero-marginal plates; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. LI. figs. 3, 4.]	
Figs. 5, 6. <i>NYMPHASTER ALBIDUS</i> , n. sp.	306
Fig. 5. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 6. Adambulacral and infero-marginal plates; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. LI. figs. 1, 2.]	
Figs. 7, 8. <i>NYMPHASTER SYMBOLICUS</i> , n. sp.	297
Fig. 7. A portion of the abactinal surface; magnified 10 diameters.	
Fig. 8. Adambulacral and infero-marginal plates; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. L. figs. 1, 2.]	
Figs. 9, 10. <i>NYMPHASTER PROTENTUS</i> , n. sp.	303
Fig. 9. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 10. Adambulacral and infero-marginal plates; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. L. figs. 3, 4.]	
Figs. 11, 12. <i>NYMPHASTER BIPUNCTUS</i> , n. sp.	301
Fig. 11. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 12. Adambulacral and infero-marginal plates; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. LII. figs. 3, 4.]	

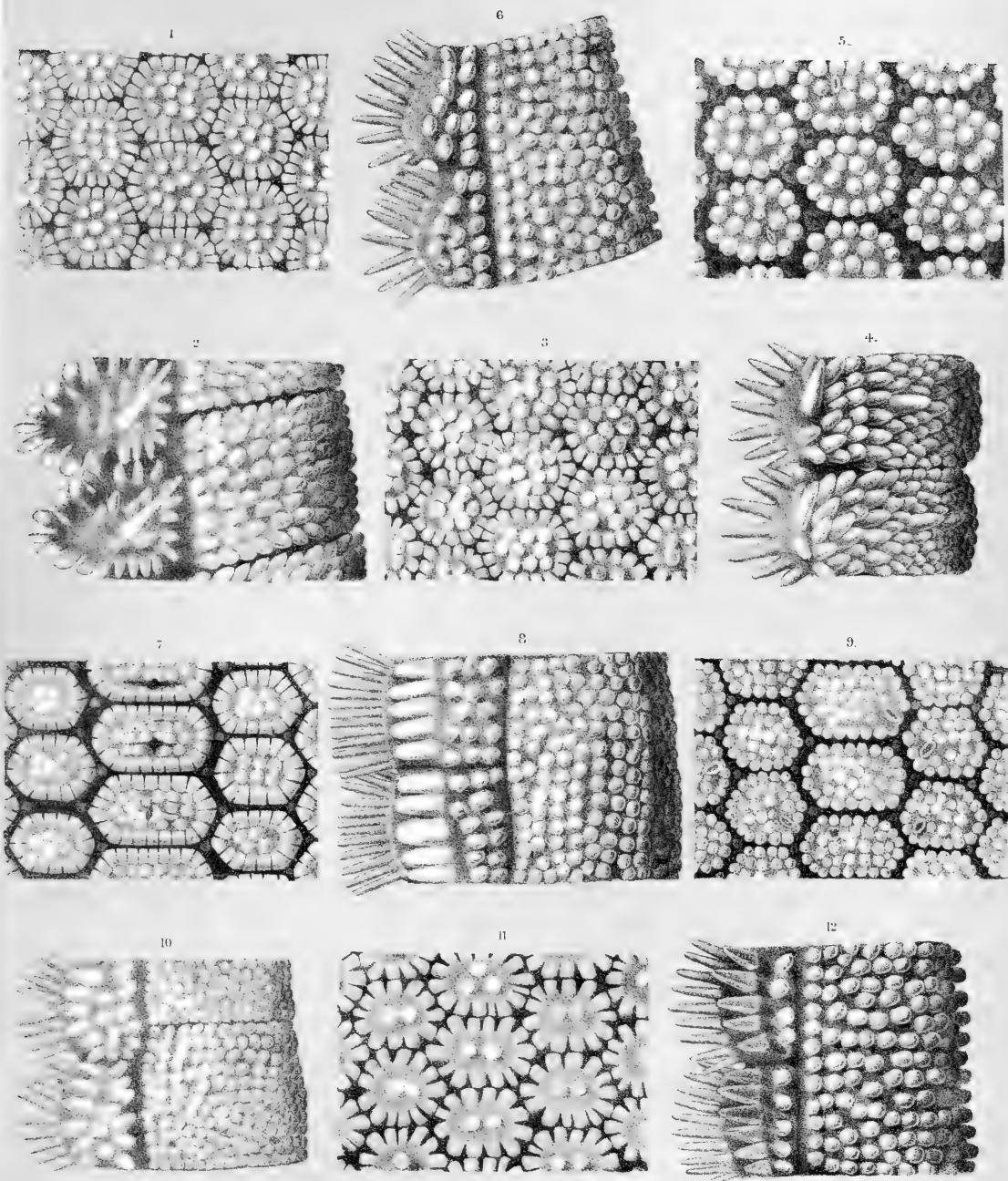


PLATE LIV.

(ZOOLOGICAL EXP.—PART LI.—1888.)—2 E

PLATE LIV.

Page
327

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. A portion of the abactinal surface; magnified 15 diameters.

Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

Fig. 5. The extremity of a ray; magnified.

Fig. 6. One of the pincer-shaped pedicellariae on the abactinal surface, seen in profile; magnified.

Fig. 7. One of the tubercle-like valvate pedicellariae on the plates adjacent to the adambulacral plates, seen in profile; magnified.

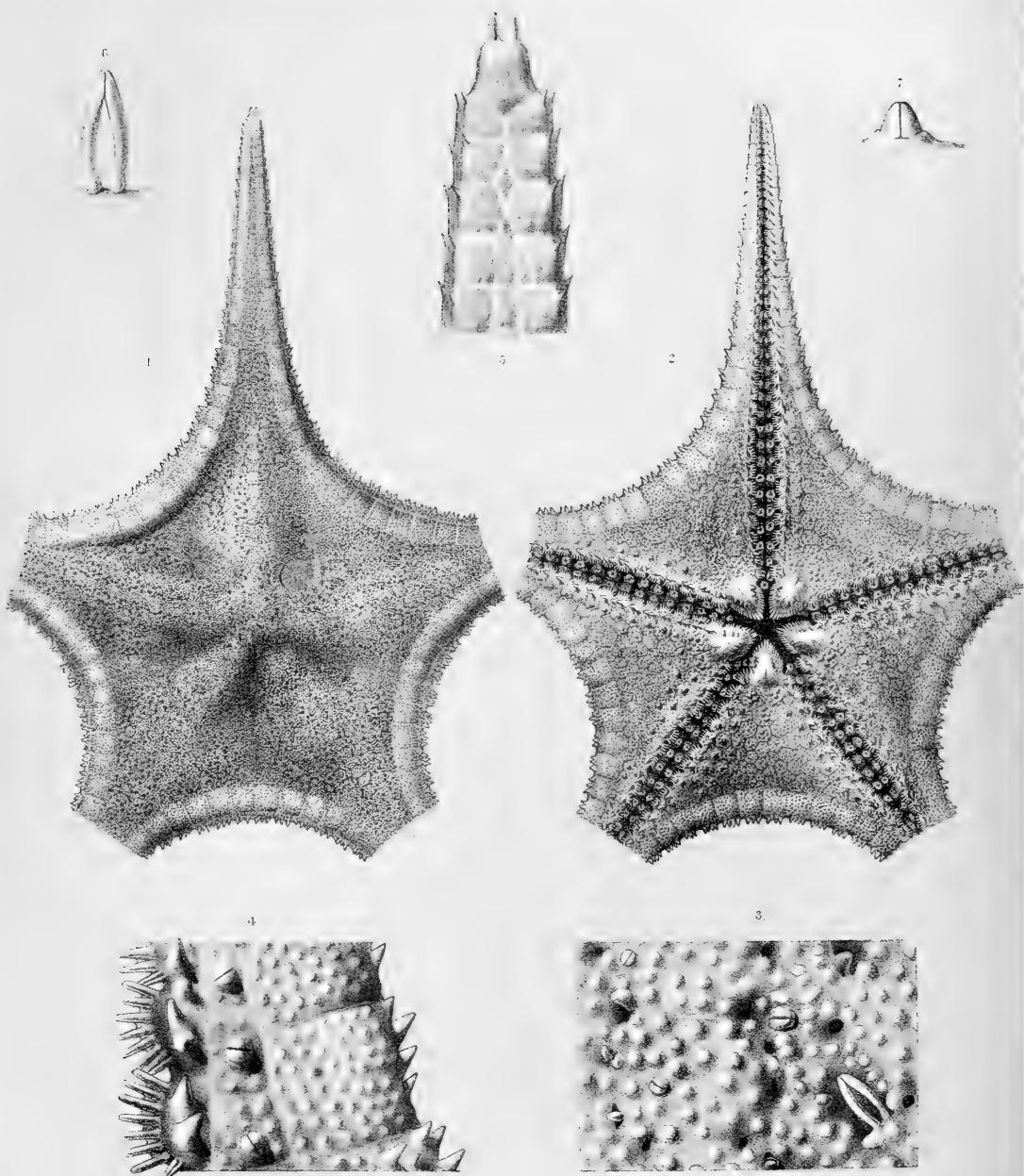


PLATE LV.

PLATE LV.

Page
319

Figs. 1-7. *NECTRIA OCELLIFERA* (Lamarek), Gray,

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. Abactinal aspect of a younger example; magnified 3 diameters.

Fig. 4. Actinal aspect of the same; magnified 3 diameters.

Fig. 5. Abactinal aspect of a young example; magnified 3 diameters.

Fig. 6. A portion of the abactinal surface of the adult; magnified 9 diameters.

Fig. 7. Adambulacral plates and adjacent portion of the actinal surface; magnified 9 diameters.

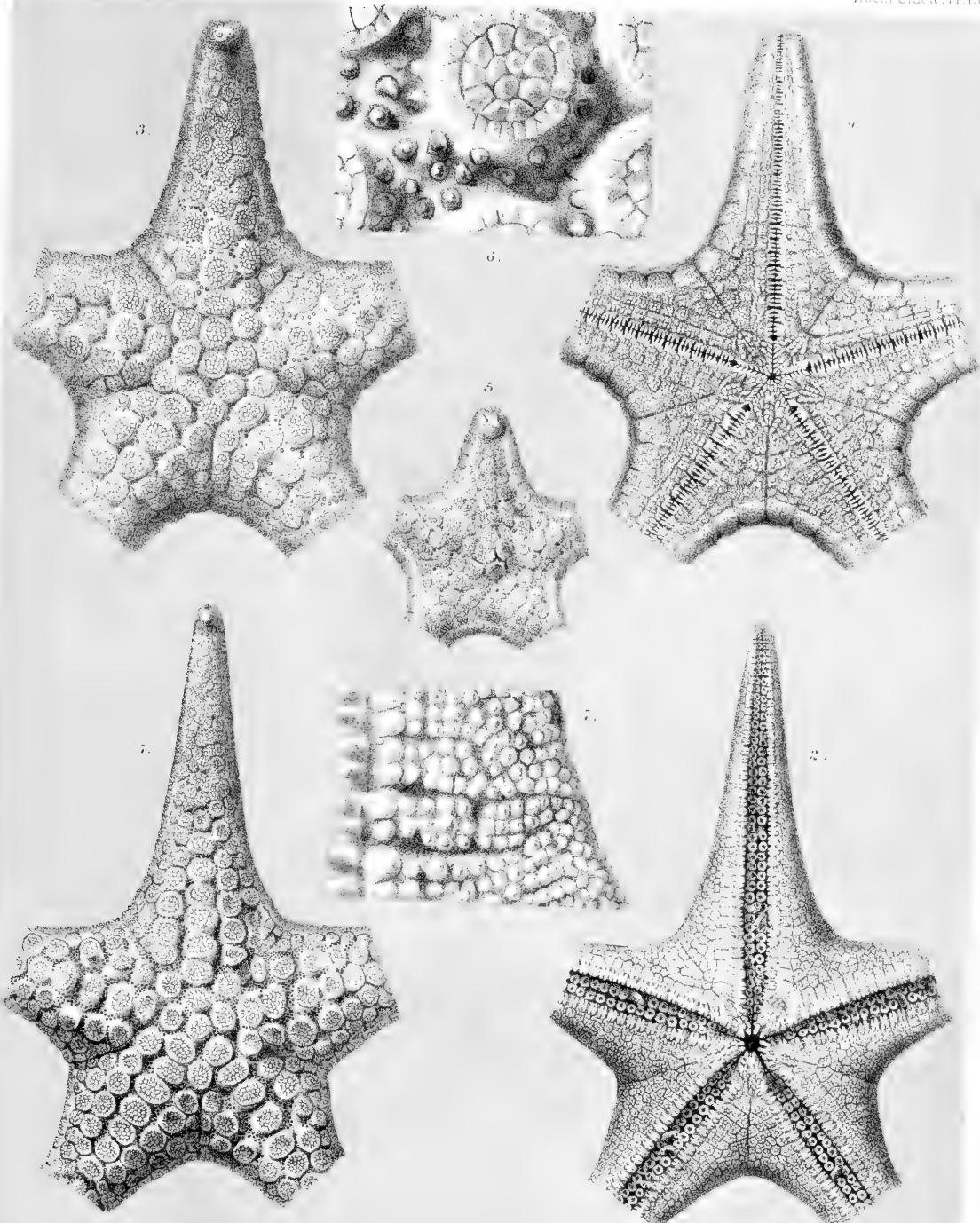
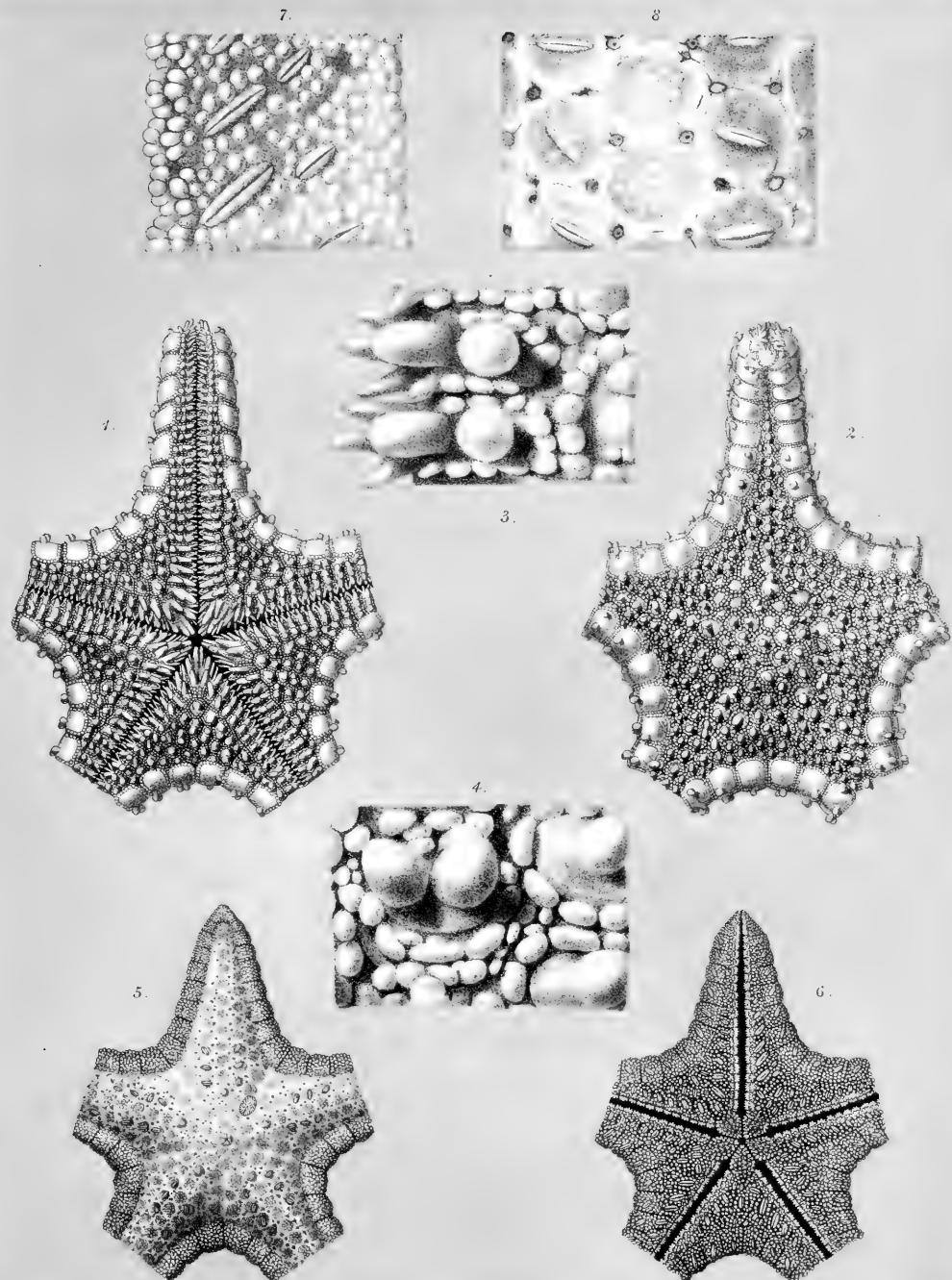


PLATE LVI.

PLATE LVI.

	Page
Figs. 1-4. <i>CALLIASTER BACCATUS</i> , n. sp.	280
Fig. 1. Actinal aspect, magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Abactinal aspect, magnified $1\frac{1}{2}$ diameters.	
Fig. 3. Adambulacral plates and adjacent portion of the actinal surface ; magnified 12 diameters.	
Fig. 4. A portion of the abactinal surface ; magnified 12 diameters.	
Figs. 5-8. <i>ANTHENA TUBERCULOSA</i> , Gray (?),	340
Fig. 5: Abactinal aspect of a young example ; magnified 3 diameters.	
Fig. 6. Actinal aspect of a young example ; magnified 3 diameters.	
Fig. 7. Adambulacral plates and adjacent portion of the actinal surface ; magnified 20 diameters.	
Fig. 8. A portion of the abactinal surface ; magnified 15 diameters.	



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1-4. *CALLIASTER BACCATUS*, n. sp.

5-8. *ANTHENEA TUBERCULOSA*, Gray, 3, juv.

PLATE LVII.

PLATE LVII.

	Page
Figs. 1-4. <i>PENTAGONASTER LEPIDUS</i> , n. sp.	275
Fig. 1. Abactinal aspect; magnified 3 diameters.	
Fig. 2. Actinal aspect; magnified 3 diameters.	
Fig. 3. A portion of the abactinal surface; magnified 25 diameters.	
Fig. 4. Adamambulacral plates and adjacent portion of the actinal surface; magnified 35 diameters.	

Figs. 5-7. <i>GNATHASTER PILULATUS</i> , n. sp.	292
Fig. 5. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 6. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 7. A portion of the abactinal surface; magnified 10 diameters.	

Figs. 8, 9. <i>NYMPHASTER BASILICUS</i> , n. sp.	308
Fig. 8. Abactinal aspect; natural size.	
Fig. 9. Adamambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.	

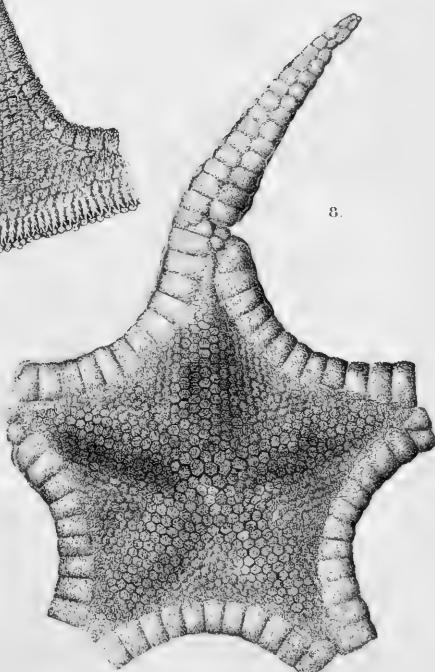
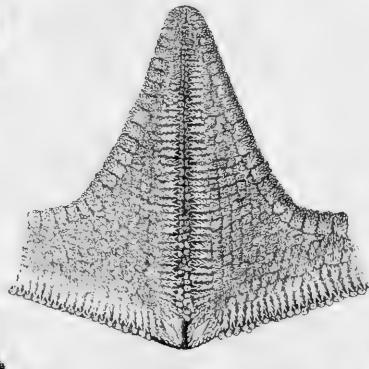
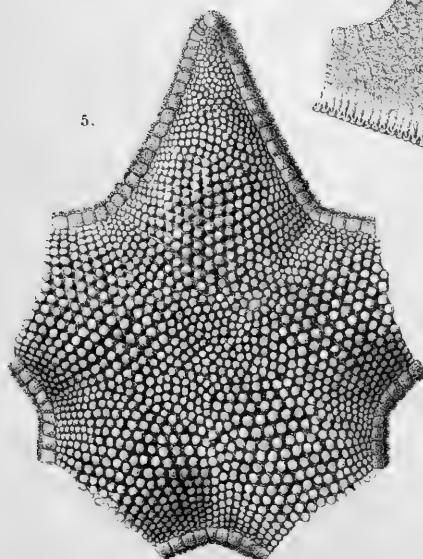
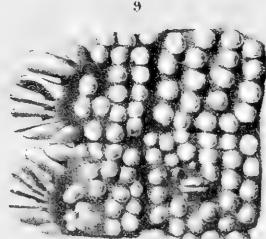
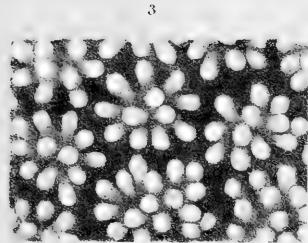
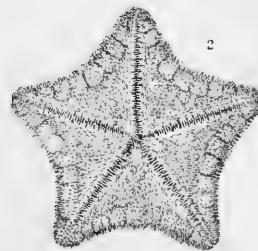
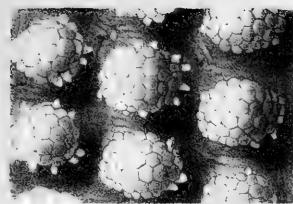
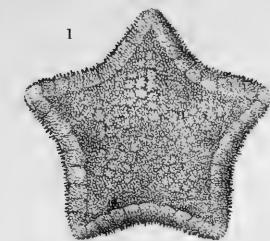


PLATE LVIII.

(ZOOLOGICAL EXP.—PART LI.—1888.)—2 G

PLATE LVIII.

	Page
Figs. 1 3. <i>STELLASTER PRINCEPS</i> , n. sp.	323

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

Fig. 3. Adambulacral plates and adjacent portion of the actinal surface; magnified.

Figs. 4-6. <i>MARGINASTER FIMBRIATUS</i> , n. sp.	365
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Fig. 4. Abactinal aspect; magnified 4 diameters.

Fig. 5. Actinal aspect; magnified 4 diameters.

Fig. 6. Adambulacral plates and adjacent portion of the actinal surface; magnified 24 diameters.

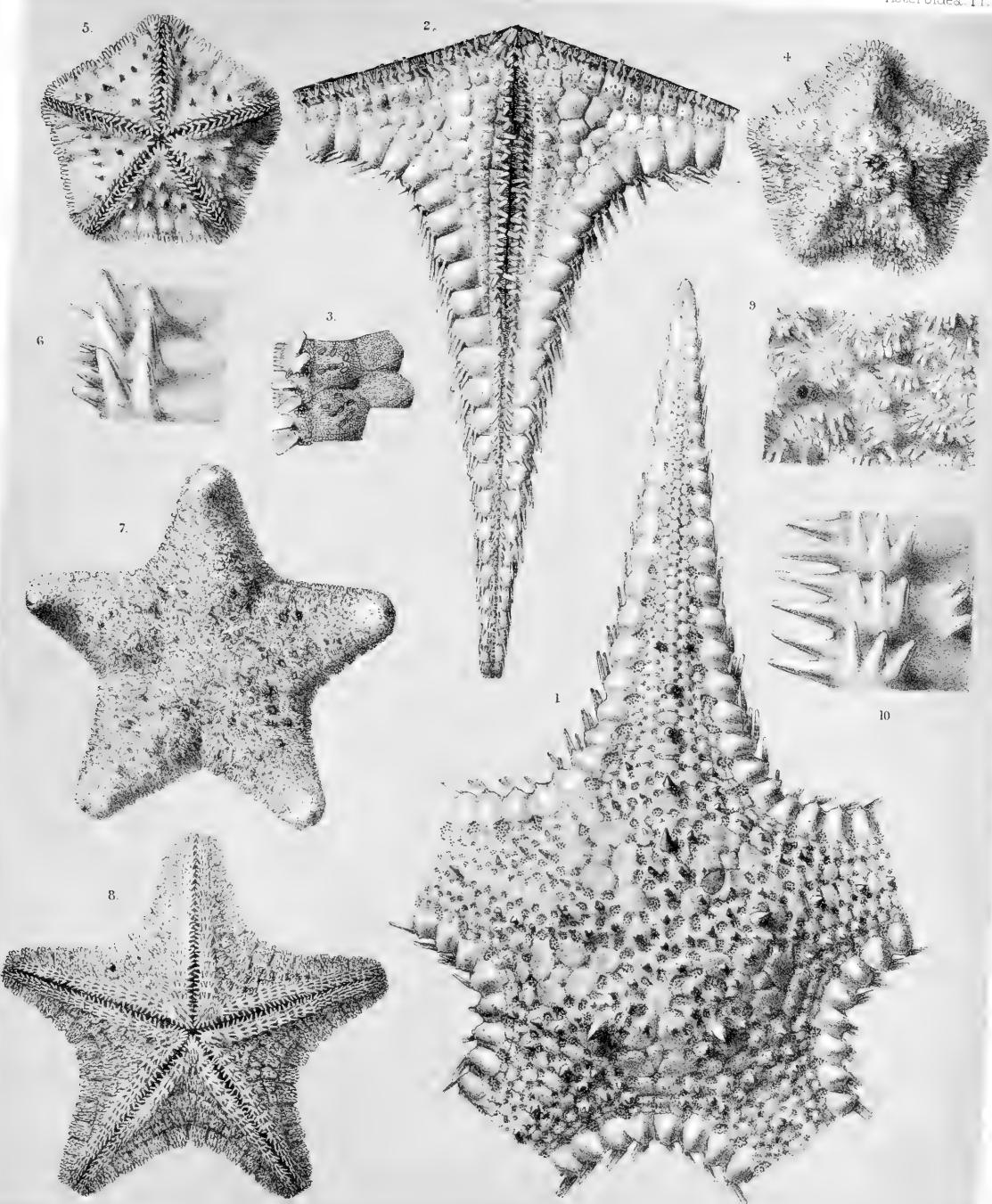
Figs. 7-10. <i>LASIASTER VILLOSUS</i> , n. sp.	372
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Fig. 7. Abactinal aspect; magnified 4 diameters.

Fig. 8. Actinal aspect; magnified 4 diameters.

Fig. 9. A portion of the abactinal surface; magnified 15 diameters.

Fig. 10. Adambulacral plates and adjacent portion of the actinal surface; magnified 20 diameters.



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1-3. STELLASTER PRINCEPS, n. sp.

4-6. MARGINASTER FIMBRIATUS, n. sp.

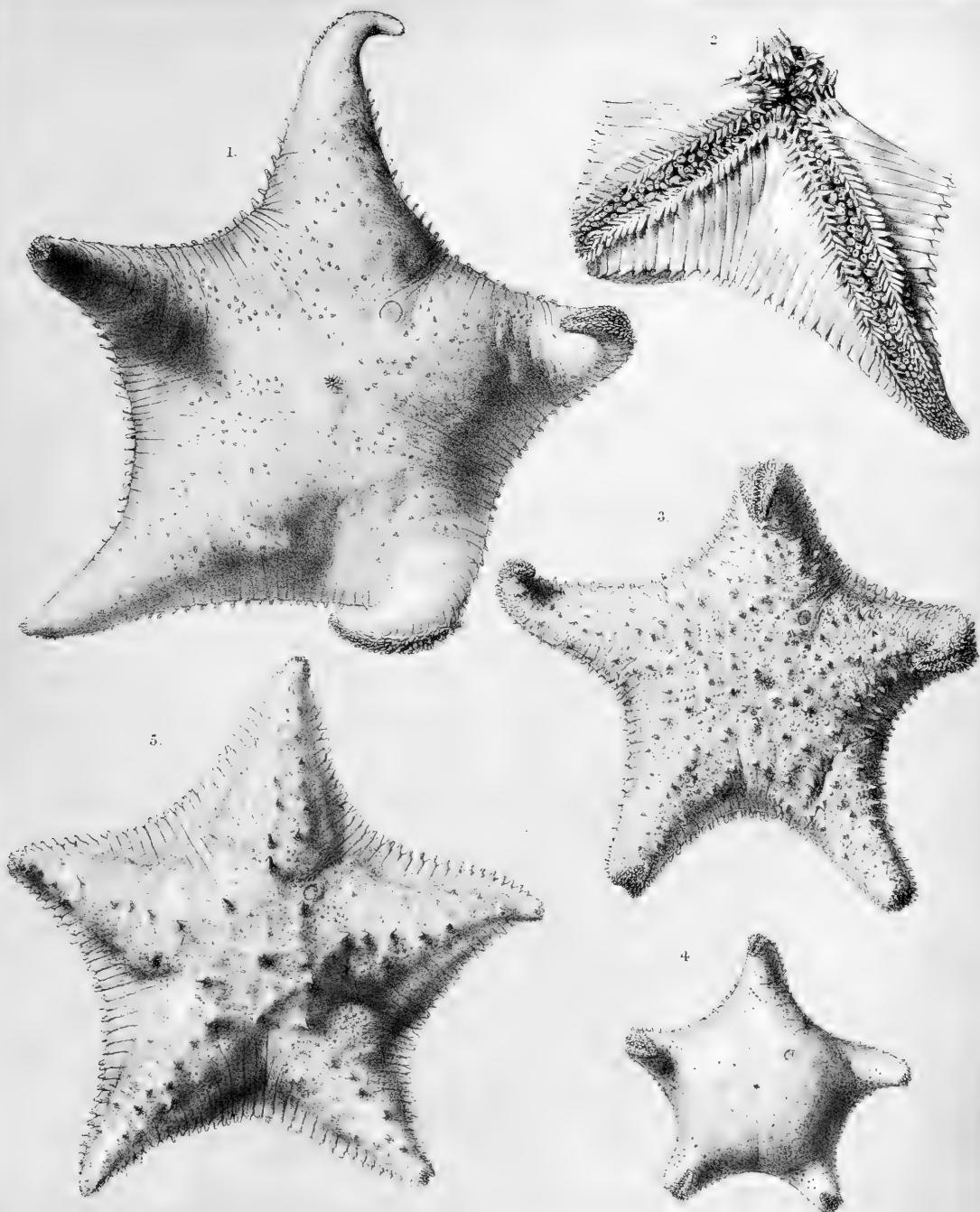
Montrouz. Bros. imp.

7-10. LASIASTER VILLOSUS, n. sp.

PLATE LIX.

PLATE LIX.

	Page
Figs. 1, 2. <i>PORANIA GLABER</i> , n. sp.	360
Fig. 1. Abactinal aspect; natural size.	
Fig. 2. Actinal aspect; natural size.	
Fig. 3. <i>PORANIA ANTARCTICA</i> , Smith,	360
Fig. 3. Abactinal aspect; natural size.	
Fig. 4. <i>PORANIA SPICULATA</i> , n. sp.	362
Fig. 4. Abactinal aspect; natural size.	
Fig. 5. <i>PORANIA MAGELLANICA</i> , Studer,	363
Fig. 5. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	



1-2. *PORANIA GLABER*, n. sp.

4. *PORANIA SPICULATA*, n. sp.

3. *PORANIA ANTARCTICA*, Smith.

5. *PORANIA MAGELLANICA*, Studer.

PLATE LX.

(ZOOLOGICAL EXP.—PART LX.—1888.)—2 H

PLATE LX.

Page
383

Figs. 1, 2. *GANERIA FALKLANDICA*, Gray,

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

[For magnified details of this species see Pl. LXII. figs. 6, 7.]

Figs. 3, 4. *CYCETHRA ELECTILIS*, n. sp. 377

Fig. 3. Abactinal aspect; magnified 2 diameters.

Fig. 4. Actinal aspect; magnified 2 diameters.

[For magnified details of this species see Pl. LXII. figs. 2, 3.]

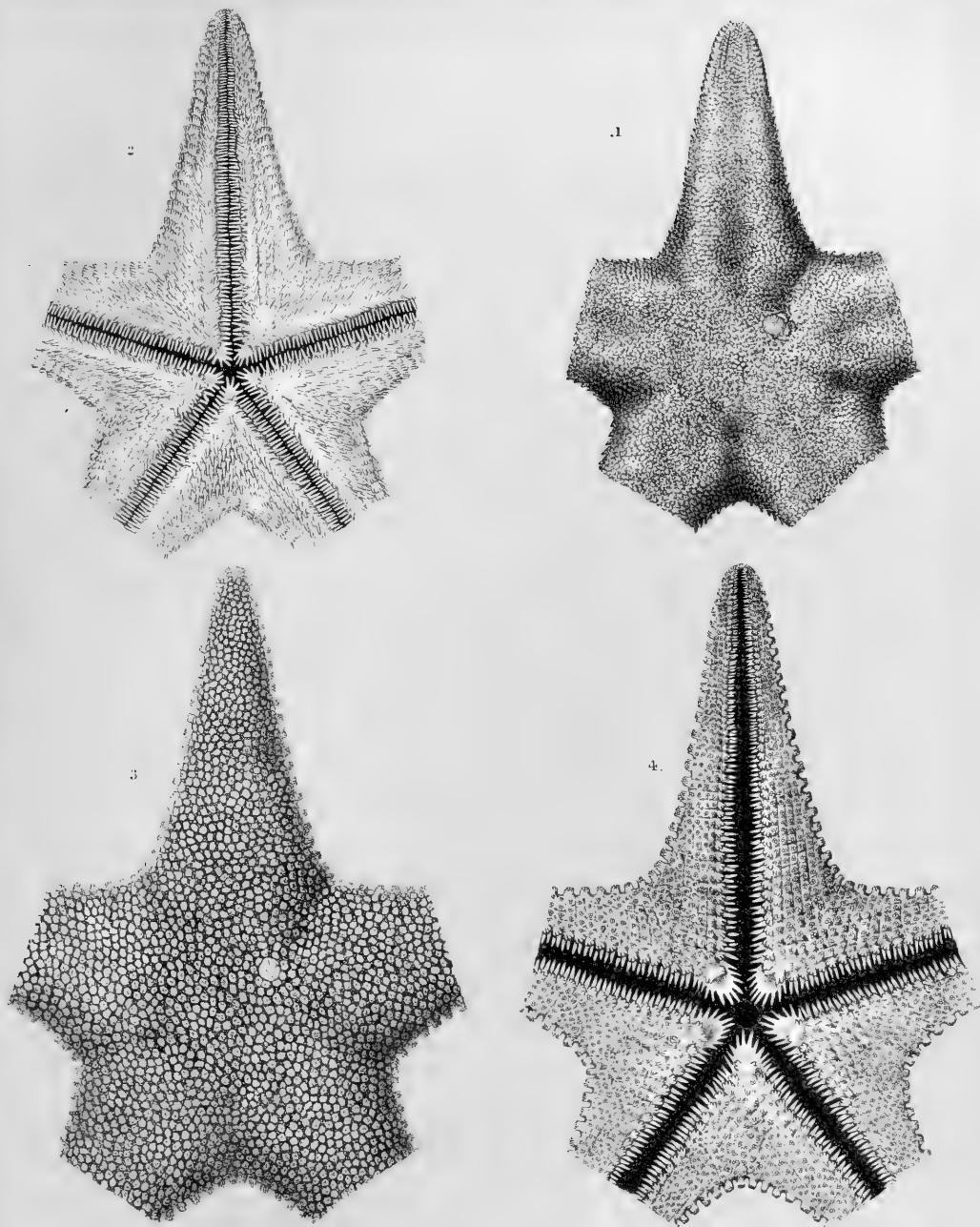


PLATE LXI.

PLATE LXI.

	Page
Figs. 1, 2. <i>CYCETHRA PINGUIS</i> , n. sp.	380
Fig. 1. Abactinal aspect; natural size.	
Fig. 2. Actinal aspect; natural size.	
[For magnified details of this species see Pl. LXII. figs. 8, 9.]	
Figs. 3, 4. <i>CYCETHRA NITIDA</i> , n. sp.	379
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXII. figs. 10, 11.]	

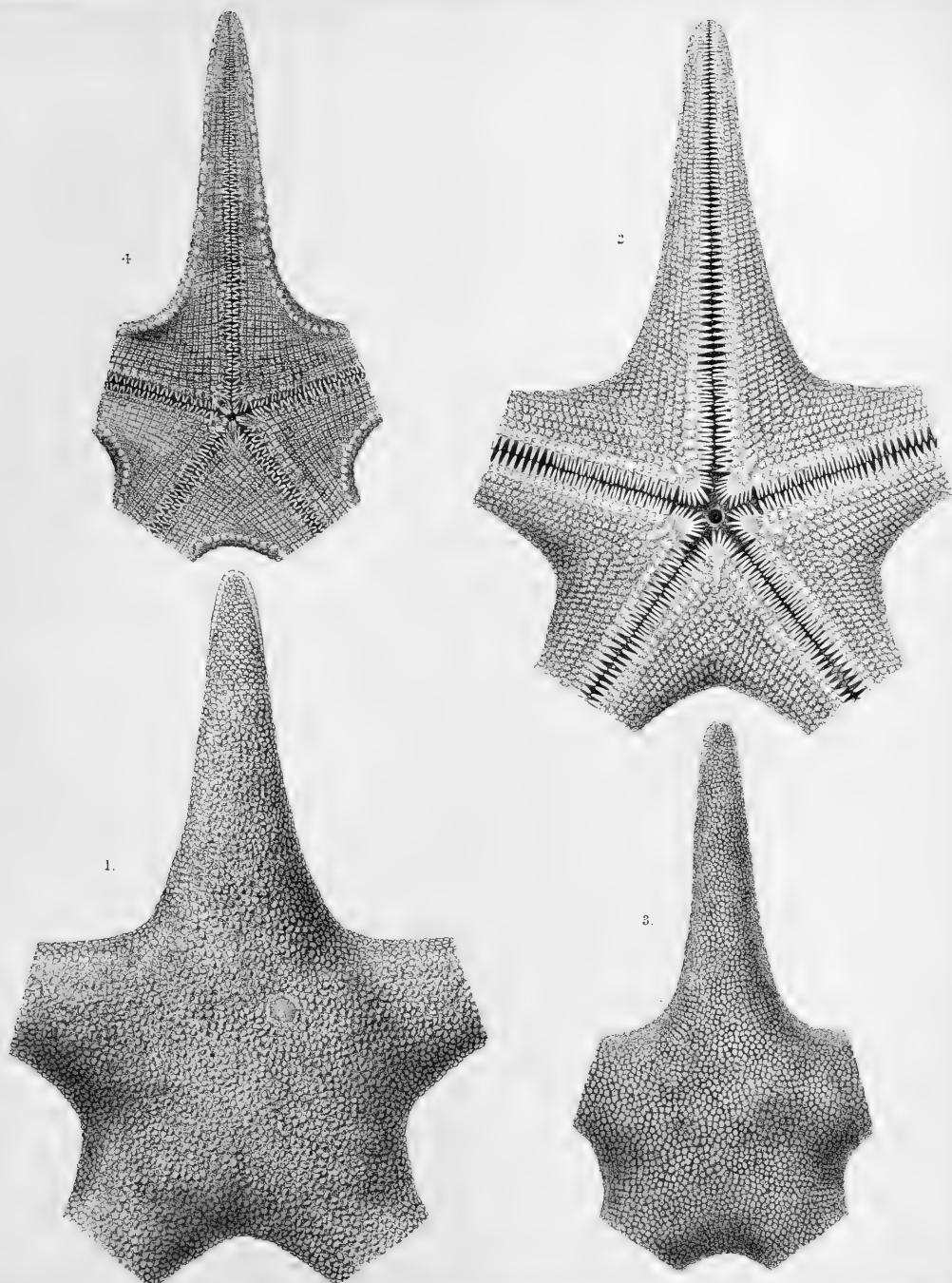


PLATE LXII.

(ZOOL. CHALL. EXP.—PART LI.—1888.)—2 I

PLATE LXII.

	Page
Fig. 1. PERKNASTER FUSCUS, n. sp.	551
Fig. 1. A portion of the abactinal surface ; magnified 22 diameters. [For macroscopic figures of this species see Pl. XCVII. figs. 3, 4.]	
Figs. 2, 3. CYCETHRA ELECTILIS, n. sp.	377
Fig. 2. A portion of the abactinal surface ; magnified 15 diameters.	
Fig. 3. Adambulacral plates and adjacent portion of the actinal surface ; magnified 10 diameters. [For macroscopic figures of this species see Pl. LX. figs. 3, 4.]	
Figs. 4, 5. MIMASTER COGNATUS, n. sp.	336
Fig. 4. A portion of the abactinal surface ; magnified 24 diameters.	
Fig. 5. Adambulacral plates and adjacent portion of the actinal surface ; magnified 16 diameters. [For macroscopic figures of this species see Pl. XLVII. figs. 3, 4.]	
Figs. 6, 7. GANERIA FALKLANDICA, Gray,	383
Fig. 6. A portion of the abactinal surface ; magnified 10 diameters.	
Fig. 7. Adambulacral plates and adjacent portion of the actinal surface ; magnified 10 diameters. [For macroscopic figures of this species see Pl. LX. figs. 1, 2.]	
Figs. 8, 9. CYCETHRA PINGUIS, n. sp.	380
Fig. 8. A portion of the abactinal surface ; magnified 10 diameters.	
Fig. 9. Adambulacral plates and adjacent portion of the actinal surface ; magnified 6 diameters. [For macroscopic figures of this species see Pl. LXI. figs. 1, 2.]	
Figs. 10, 11. CYCETHRA NITIDA, n. sp.	379
Fig. 10. A portion of the abactinal surface ; magnified 20 diameters.	
Fig. 11. Adambulacral plates and adjacent portion of the actinal surface ; magnified 12 diameters. [For macroscopic figures of this species see Pl. LXI. figs. 3, 4.]	

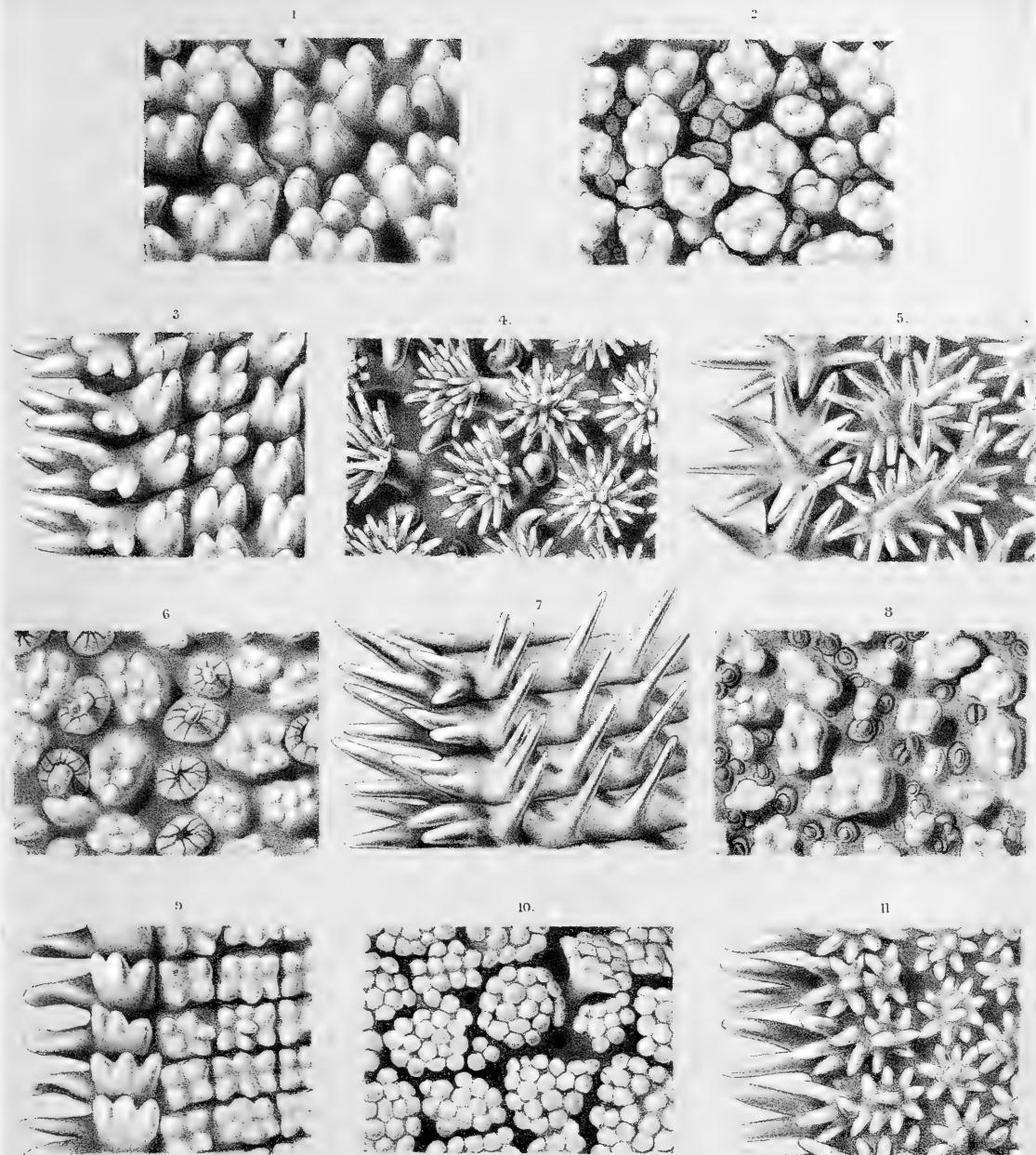


PLATE LXIII.

PLATE LXIII.

	Page
Figs. 1, 2. <i>PATIRIA BELLULA</i> , n. sp.	385
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXIV. figs. 5, 6.]	
Figs. 3-5. <i>NEPANTHIA BREVIS</i> , Perrier,	387
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
Fig. 5. Adambulacral plates and adjacent portion of the actinal surface; magnified 25 diameters.	

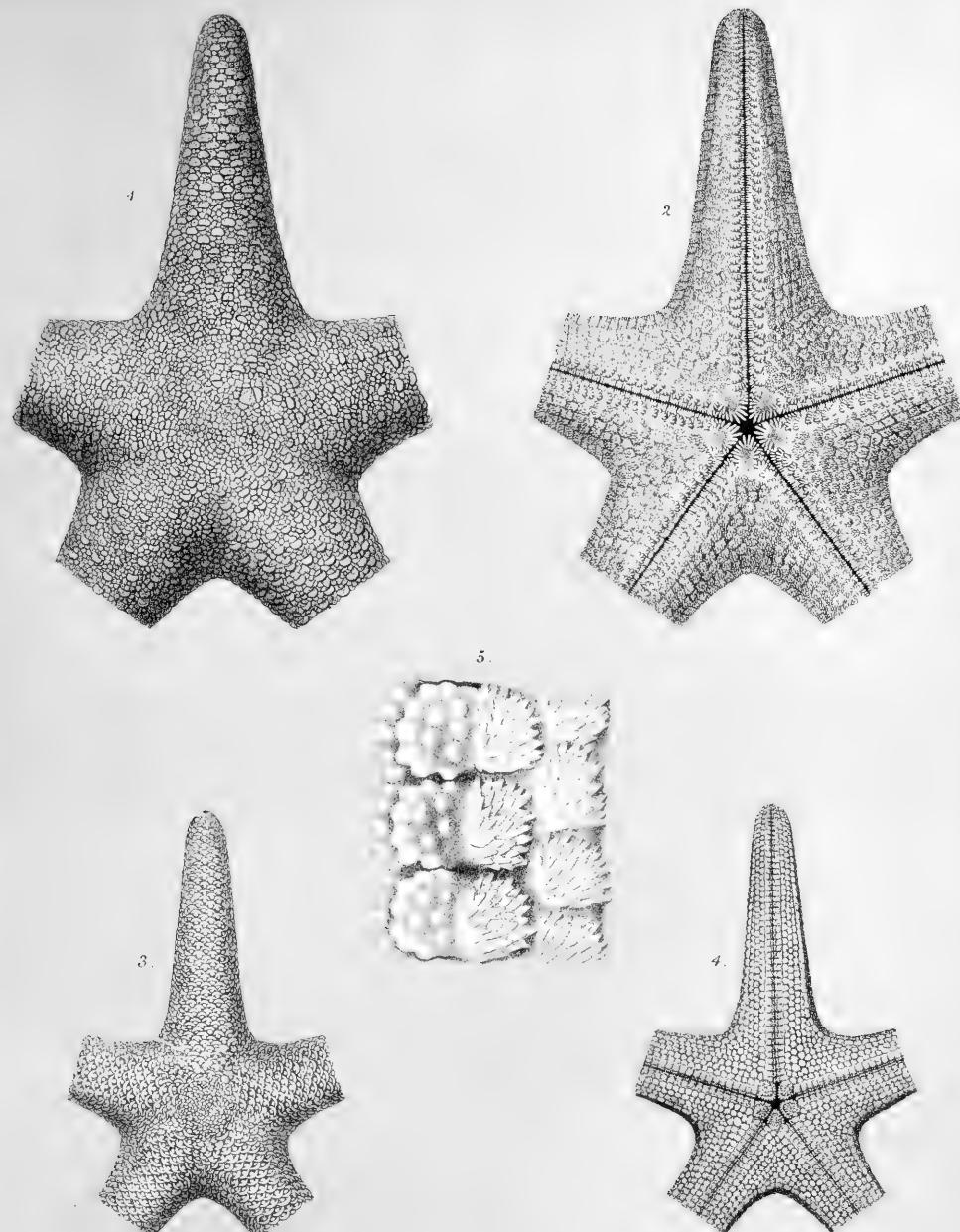


PLATE LXIV.

(ZOOL. CHALL. EXP.—PART LI.—1888.)—2 K

PLATE LXIV.

	Page
Figs. 1-4. <i>NEPANTHIA MACULATA</i> , Gray,	388
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 3. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 15 diameters.	
Figs. 5, 6. <i>PATIRIA BELLULA</i> , n. sp.	385
Fig. 5. A portion of the abactinal surface; magnified 10 diameters.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. LXIII. figs. 1, 2.]	

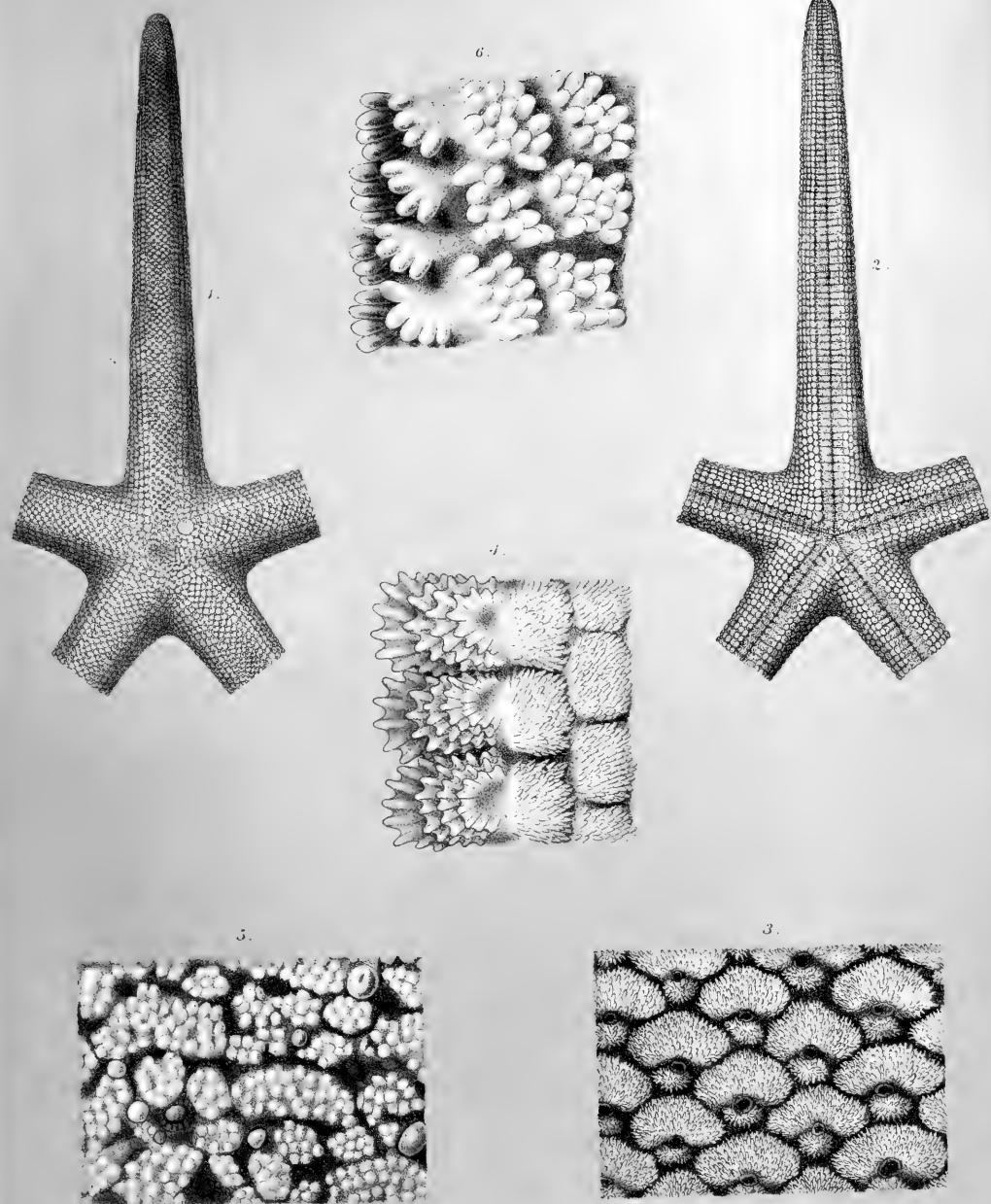


PLATE LXV.

PLATE LXV.

	Page
Figs. 1-4. <i>OPHIDIASTER TUBERIFER</i> , n. sp.	404

Fig. 1. Abactinal aspect ; magnified 2 diameters.

Fig. 2. Actinal aspect ; magnified 2 diameters.

Fig. 3. Adambulacral plates and adjacent portion of the actinal surface ; magnified 12 diameters.

Fig. 4. A portion of the abactinal surface ; magnified 12 diameters.

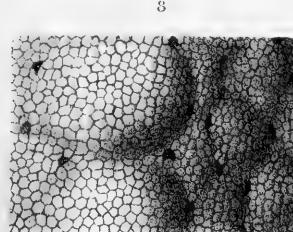
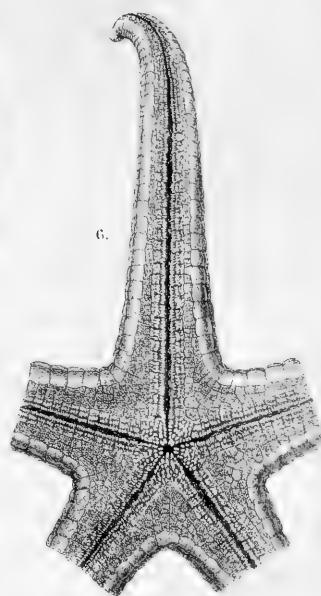
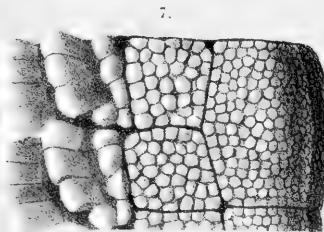
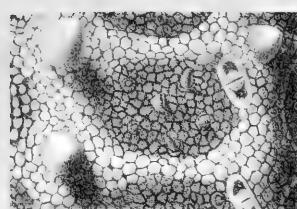
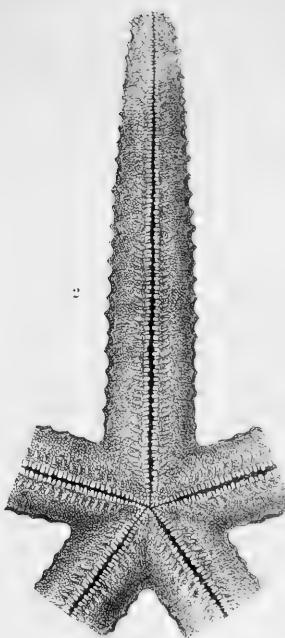
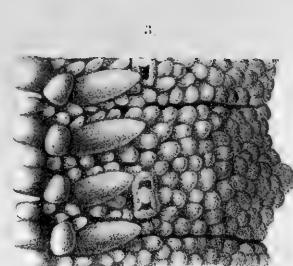
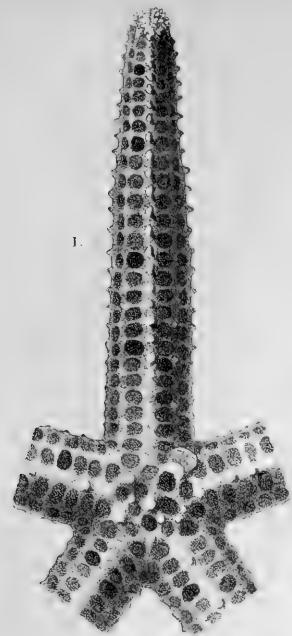
Figs. 5-8. <i>NARCISSIA TRIGONARIA</i> , n. sp.	414
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Fig. 5. Abactinal aspect ; magnified $1\frac{1}{2}$ diameters.

Fig. 6. Actinal aspect ; magnified $1\frac{1}{2}$ diameters.

Fig. 7. Adambulacral plates and adjacent portion of the actinal surface ; magnified 12 diameters.

Fig. 8. A portion of the abactinal surface ; magnified 10 diameters.



1-4. OPHIDIASTER TUBERIFER, n.sp. 5-8. NARCISSIA TRIGONARIA, n.sp.

PLATE LXVI.

PLATE LXVI.

	Page
Figs. 1, 2. <i>ZOROASTER FULGENS</i> , Wyville Thomson,	418
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXVIII. figs. 1, 2.]	
Figs. 3, 4. <i>NEOMORPHASTER EUSTICHUS</i> , n. sp.	438
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. LXVIII. figs. 9, 10.]	

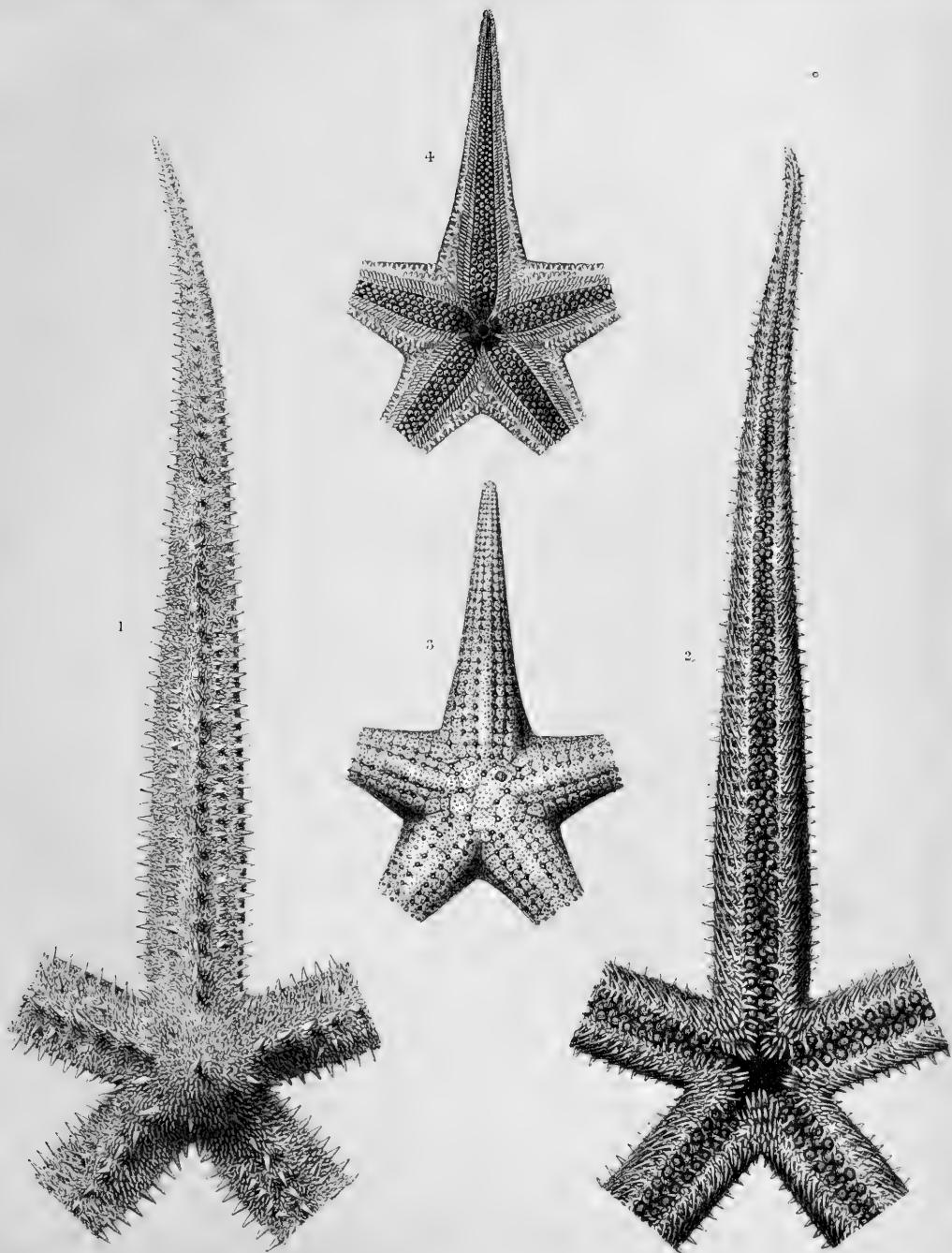
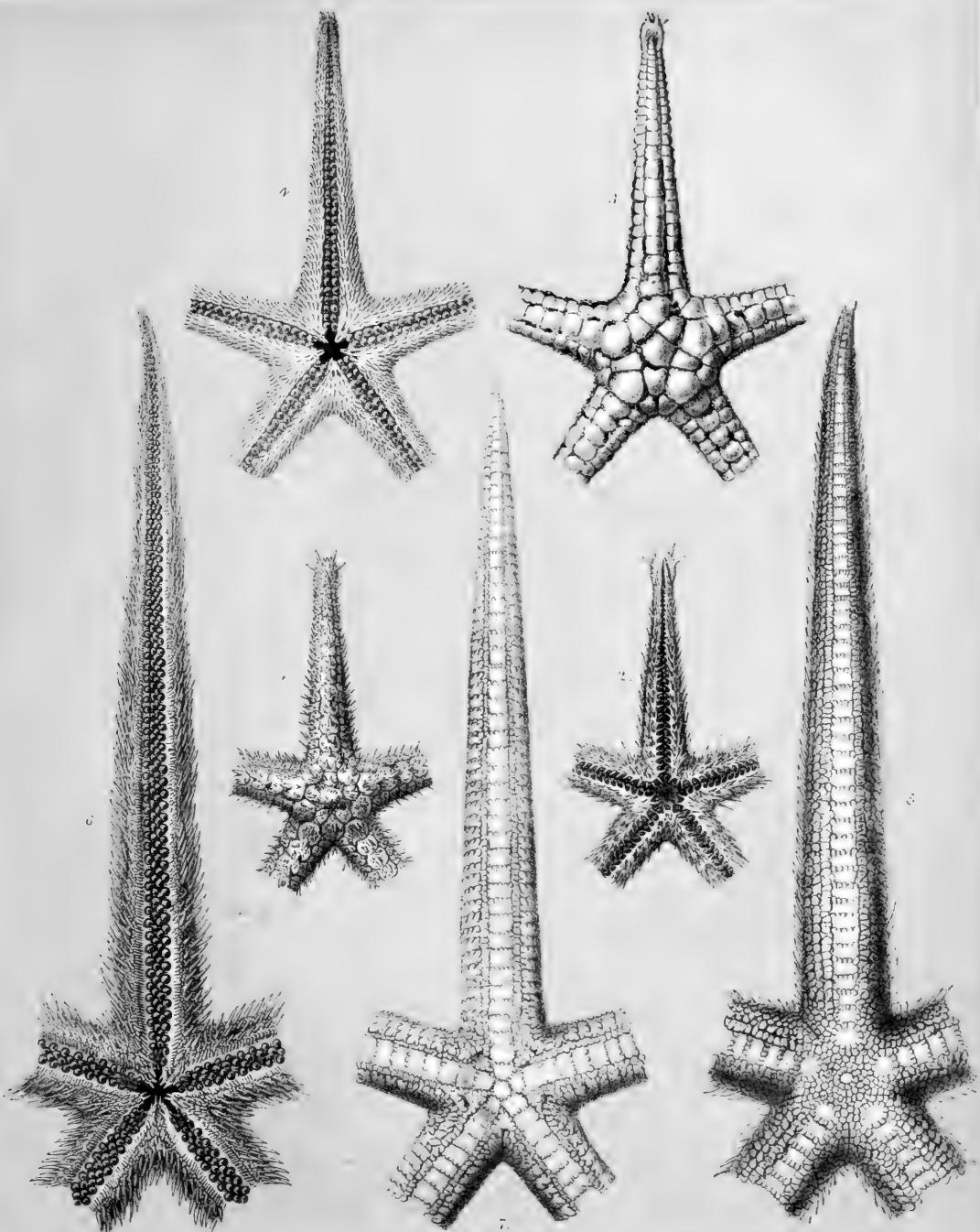


PLATE LXVII.

PLATE LXVII.

	Page
Figs. 1, 2. <i>ZOROASTER TENUIS</i> , n. sp.	421
Fig. 1. Abactinal aspect ; magnified 3 diameters.	
Fig. 2. Actinal aspect ; magnified 3 diameters.	
[For magnified details of this species see Pl. LXVIII. figs. 7, 8.]	
Figs. 3, 4. <i>CNEMIDASTER WYVILLII</i> , n. sp.	424
Fig. 3. Abactinal aspect ; magnified 3 diameters.	
Fig. 4. Actinal aspect ; magnified 3 diameters.	
[For magnified details of this species see Pl. LXVIII. figs. 3, 4.]	
Figs. 5, 6. <i>PHOLIDASTER SQUAMATUS</i> , n. sp.	427
Fig. 5. Abactinal aspect ; magnified 2 diameters.	
Fig. 6. Actinal aspect ; magnified 2 diameters.	
[For magnified details of this species see Pl. LXVIII. figs. 5, 6.]	
Fig. 7. <i>PHOLIDASTER DISTINCTUS</i> , n. sp.	429
Fig. 7. Abactinal aspect ; magnified 2 diameters.	



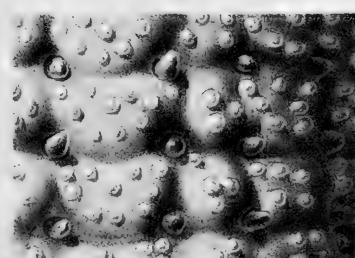
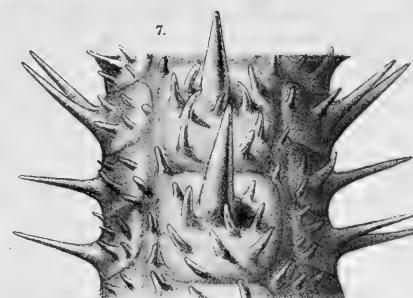
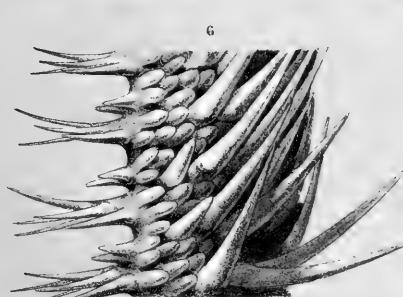
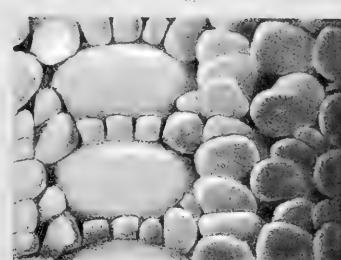
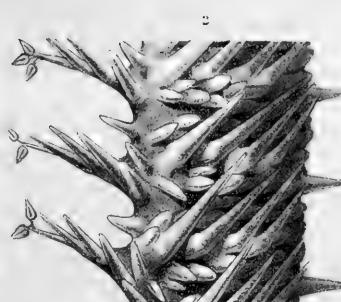
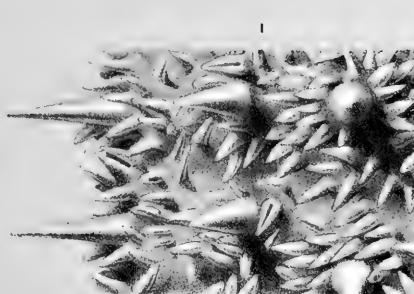
1-2. *ZOROASTER TENUIS*, n.sp
5-6. *PHOLIDASTER SQUAMATUS*, n.sp

3-4. *CNEMIDASTER WYVILLII*, n.sp
7. *PHOLIDASTER DISTINCTUS*, n.sp

PLATE LXVIII.

PLATE LXVIII.

	Page
Figs. 1, 2. <i>ZOROASTER FULGENS</i> , Wyville Thomson,	418
Fig. 1. A portion of the abactinal surface; magnified 10 diameters.	
Fig. 2. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. LXVI. figs. 1, 2.]	
Figs. 3, 4. <i>CNEMIDASTER WYVILLII</i> , n. sp.	424
Fig. 3. A portion of the abactinal surface; magnified 18 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 25 diameters.	
[For macroscopic figures of this species see Pl. LXVII. figs. 3, 4.]	
Figs. 5, 6. <i>PHOLIDASTER SQUAMATUS</i> , n. sp.	427
Fig. 5. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. LXVII. figs. 5, 6.]	
Figs. 7, 8. <i>ZOROASTER TENUIS</i> , n. sp.	421
Fig. 7. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 8. Adambulacral plates and adjacent portion of the actinal surface; magnified.	
[For macroscopic figures of this species see Pl. LXVII. figs. 1, 2.]	
Figs. 9, 10. <i>NEOMORPHASTER EUSTICHUS</i> , n. sp.	438
Fig. 9. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 10. Adambulacral plates and adjacent portion of the actinal surface; magnified 24 diameters.	
[For macroscopic figures of this species see Pl. LXVI. figs. 3, 4.]	



1-2. ZOROASTER FULGENS, Wyville Thomson.
5-6. PHOLIDASTER SQUAMATUS, n. sp.

3-4. CNEMIDASTER WYVILLII, n. sp.
7-8. ZOROASTER TENUIS, n. sp.

9-10. NEOMORPHASTER EUSTICHUS, n. sp.

PLATE LXIX.

PLATE LXIX.

	Page
Figs. 1-4. <i>RHIPIDASTER VANNIPES</i> , n. sp.	448
Fig. 1. Abactinal surface; natural size.	
Fig. 2. Actinal surface; natural size.	
Fig. 3. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.	
Figs. 5-7. <i>OPHIDIASTER HELICOSTICHUS</i> , n. sp.	405
Fig. 5. Abactinal aspect; natural size.	
Fig. 6. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 7. Adambulacral plates and adjacent portion of the actinal surface; magnified 15 diameters.	

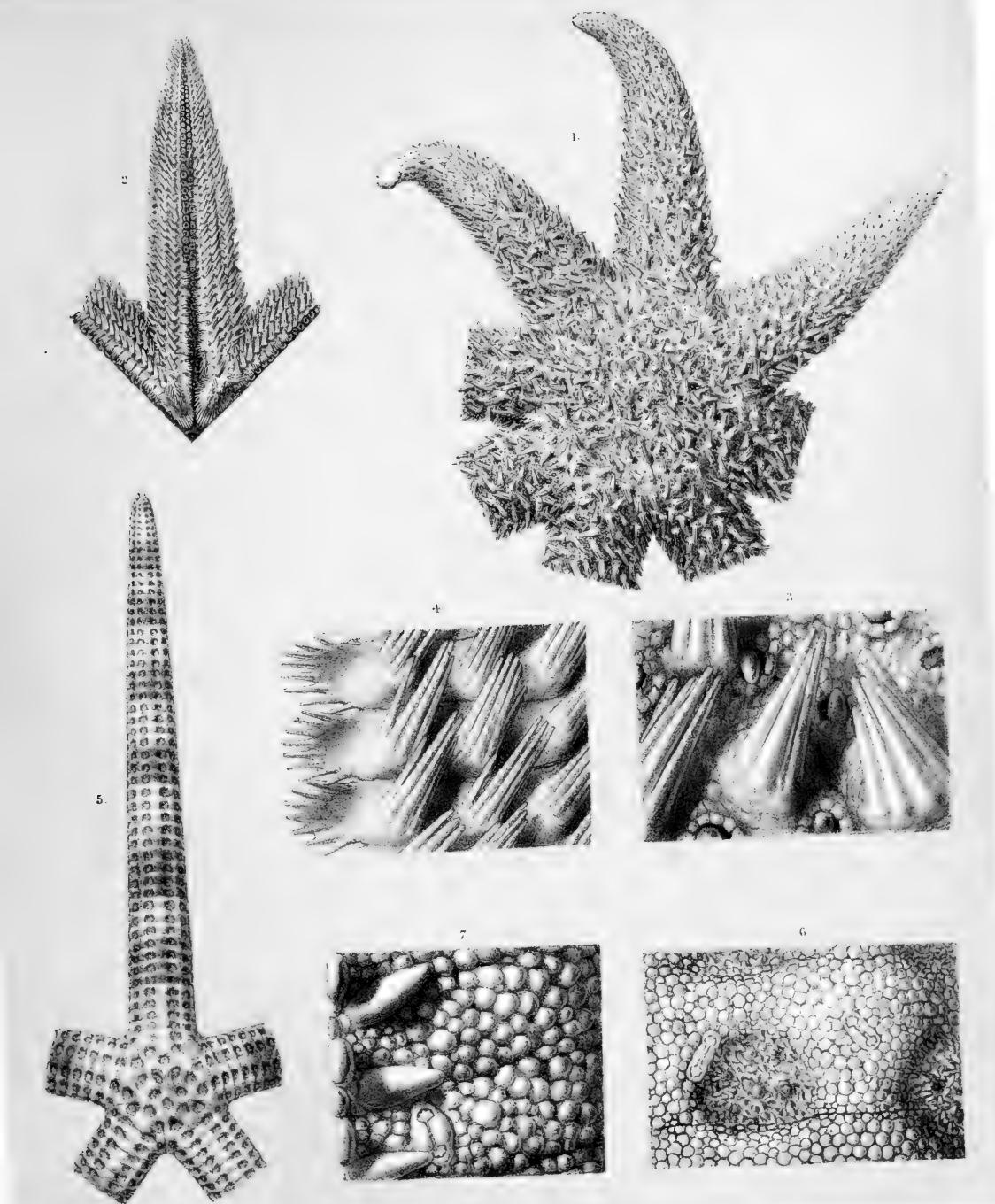
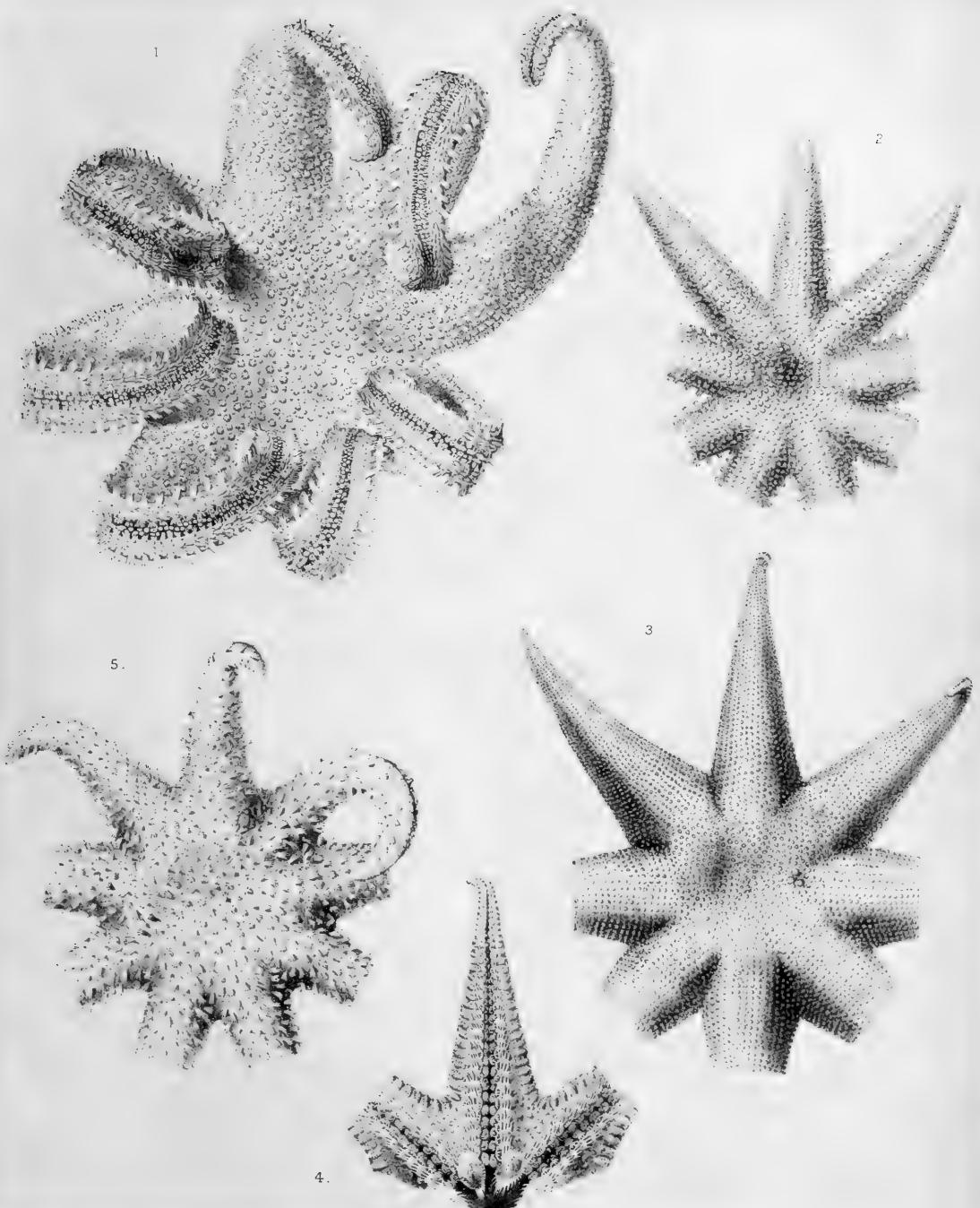


PLATE LXX.

PLATE LXX.

	Page
Fig. 1. SOLASTER REGULARIS, n. sp.	454
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXXII. figs. 5, 6.]	
Fig. 2. SOLASTER SUBARCUATUS, n. sp.	455
Fig. 2. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXXII. figs. 7, 8.]	
Figs. 3, 4. SOLASTER TORULATUS, n. sp.	457
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXXII. figs. 3, 4.]	
Fig. 5. CROSSASTER PENICILLATUS, n. sp.	446
Fig. 5. Abactinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. LXXII. figs. 9, 10.]	



1. *SOLASTER REGULARIS*, n. sp
3-4. *SOLASTER TORULATUS*, n. sp.

2. *SOLASTER SUBARCUATUS*, n. sp
5. *CROSSASTER PENICILLATUS*, n. sp.

PLATE LXXI.

PLATE LXXI.

	Page
Figs. 1-3. <i>SOLASTER PAXILLATUS</i> , n. sp.	452
Fig. 1. Abactinal aspect; magnified 3 diameters.	
Fig. 2. Actinal aspect; magnified 3 diameters.	
Fig. 3. Actinal aspect of a large example; natural size.	
[For magnified details of this species see Pl. LXXII. figs. 1, 2.]	

Figs. 4, 5. <i>LOPHASTER STELLANS</i> , n. sp.	460
Fig. 4. Abactinal aspect; magnified 2 diameters.	
Fig. 5. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. LXXII. figs. 11, 12.]	

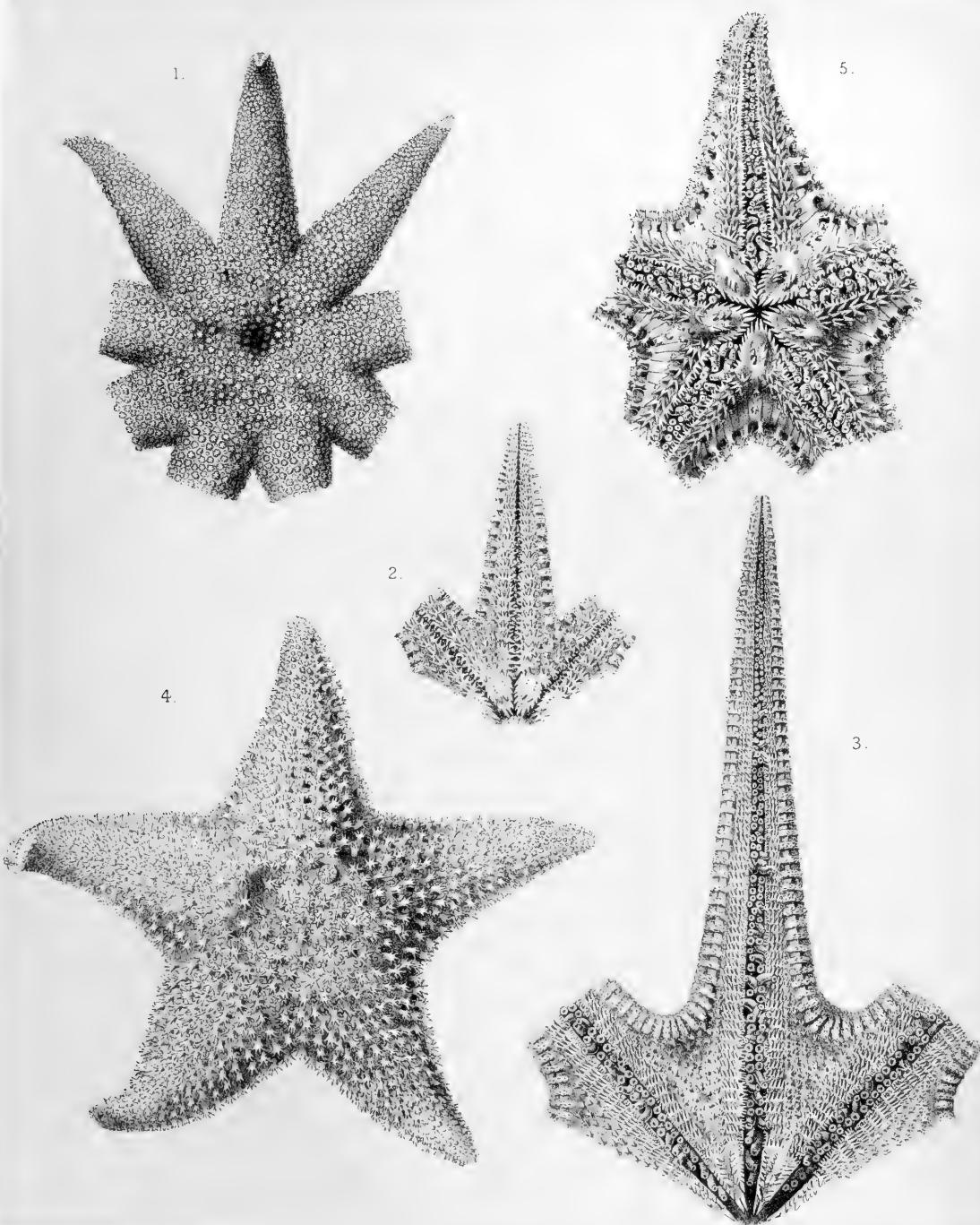


PLATE LXXII.

PLATE LXXII.

	Page
Figs. 1, 2. <i>SOLASTER PAXILLATUS</i> , n. sp.	452
Fig. 1. A portion of the abactinal surface ; magnified 25 diameters.	
Fig. 2. Adambulacral plates and adjacent portion of the actinal surface (from a large example) ; magnified 6 diameters.	
[For macroscopic figures of this species see Pl. LXXI. figs. 1-3.]	
Figs. 3, 4. <i>SOLASTER TORULATUS</i> , n. sp.	457
Fig. 3. A portion of the abactinal surface ; magnified 32 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface ; magnified.	
[For macroscopic figures of this species see Pl. LXX. figs. 3, 4.]	
Figs 5, 6. <i>SOLASTER REGULARIS</i> , n. sp.	454
Fig. 5. A portion of the abactinal surface ; magnified 15 diameters.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface ; magnified 9 diameters.	
[For a macroscopic figure of this species see Pl. LXX. fig. 1.]	
Figs. 7, 8. <i>SOLASTER SUBARCUATUS</i> , n. sp.	455
Fig. 7. A portion of the abactinal surface ; magnified 16 diameters.	
Fig. 8. Adambulacral plates and adjacent portion of the actinal surface ; magnified 13 diameters.	
[For a macroscopic figure of this species see Pl. LXX. fig. 2.]	
Figs. 9, 10. <i>CROSSASTER PENICILLATUS</i> , n. sp.	446
Fig. 9. A portion of the abactinal surface ; magnified 15 diameters.	
Fig. 10. Adambulacral plates and adjacent portion of the actinal surface ; magnified 15 diameters.	
[For a macroscopic figure of this species see Pl. LXX. fig. 5.]	
Figs. 11, 12. <i>LOPHASTER STELLANS</i> , n. sp.	460
Fig. 11. A portion of the abactinal surface ; magnified 12 diameters.	
Fig. 12. Adambulacral plates and adjacent portion of the actinal surface ; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. LXXI. figs. 4, 5.]	

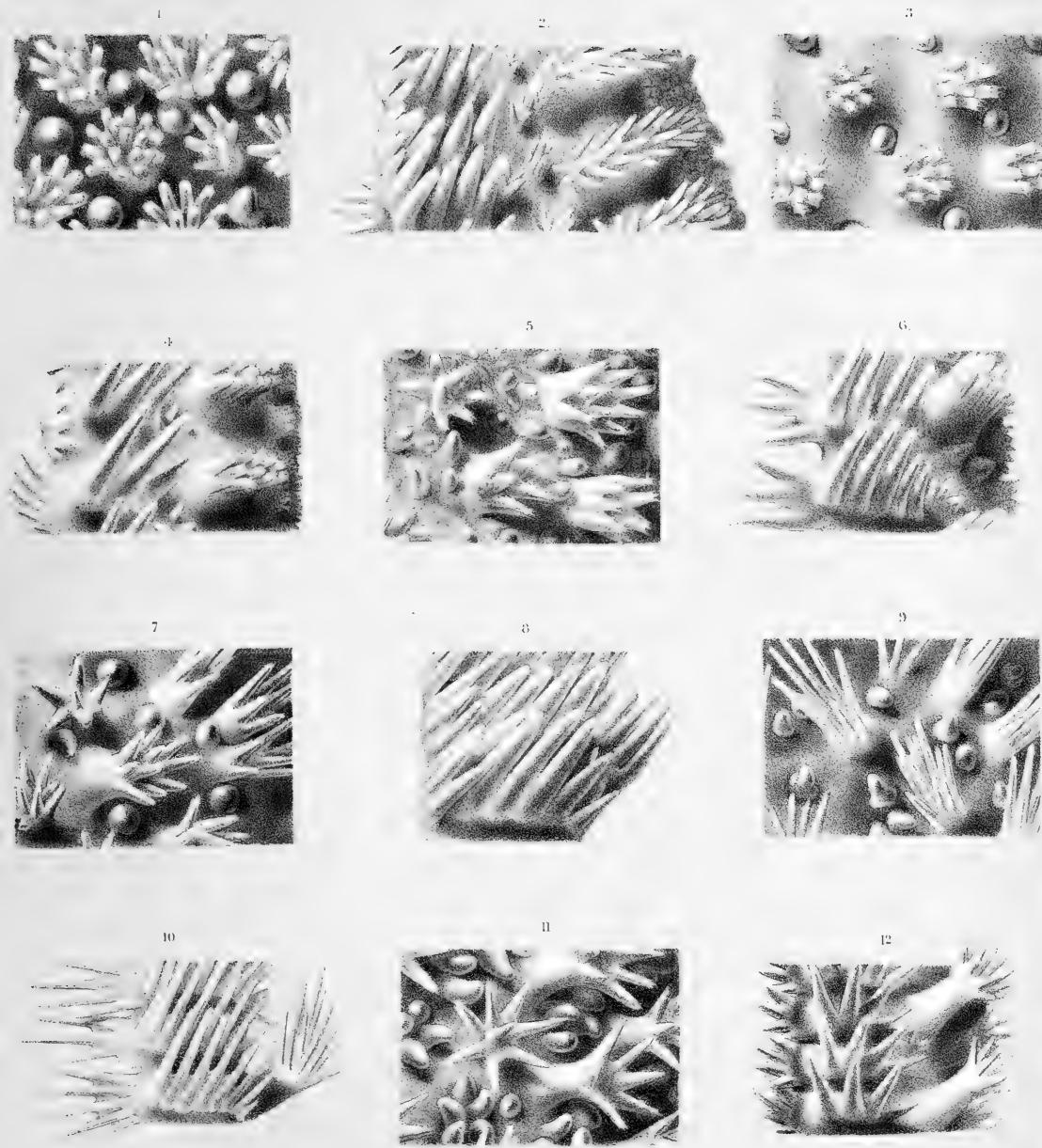


PLATE LXXIII.

PLATE LXXIII.

Page
283

Figs. 1-3. *CHITONASTER CATAPHRACTUS*, n. sp.

Fig. 1. Abactinal aspect; magnified 3 diameters.

Fig. 2. Actinal aspect; magnified 3 diameters.

Fig. 3. Adambulacral plates and adjacent portion of the actinal surface; magnified 15 diameters.

Figs. 4-7. *PERIBOLASTER FOLLICULATUS*, n. sp.

465

Fig. 4. Abactinal aspect; natural size.

Fig. 5. Actinal aspect; natural size.

Fig. 6. A portion of the abactinal surface; magnified 8 diameters.

Fig. 7. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

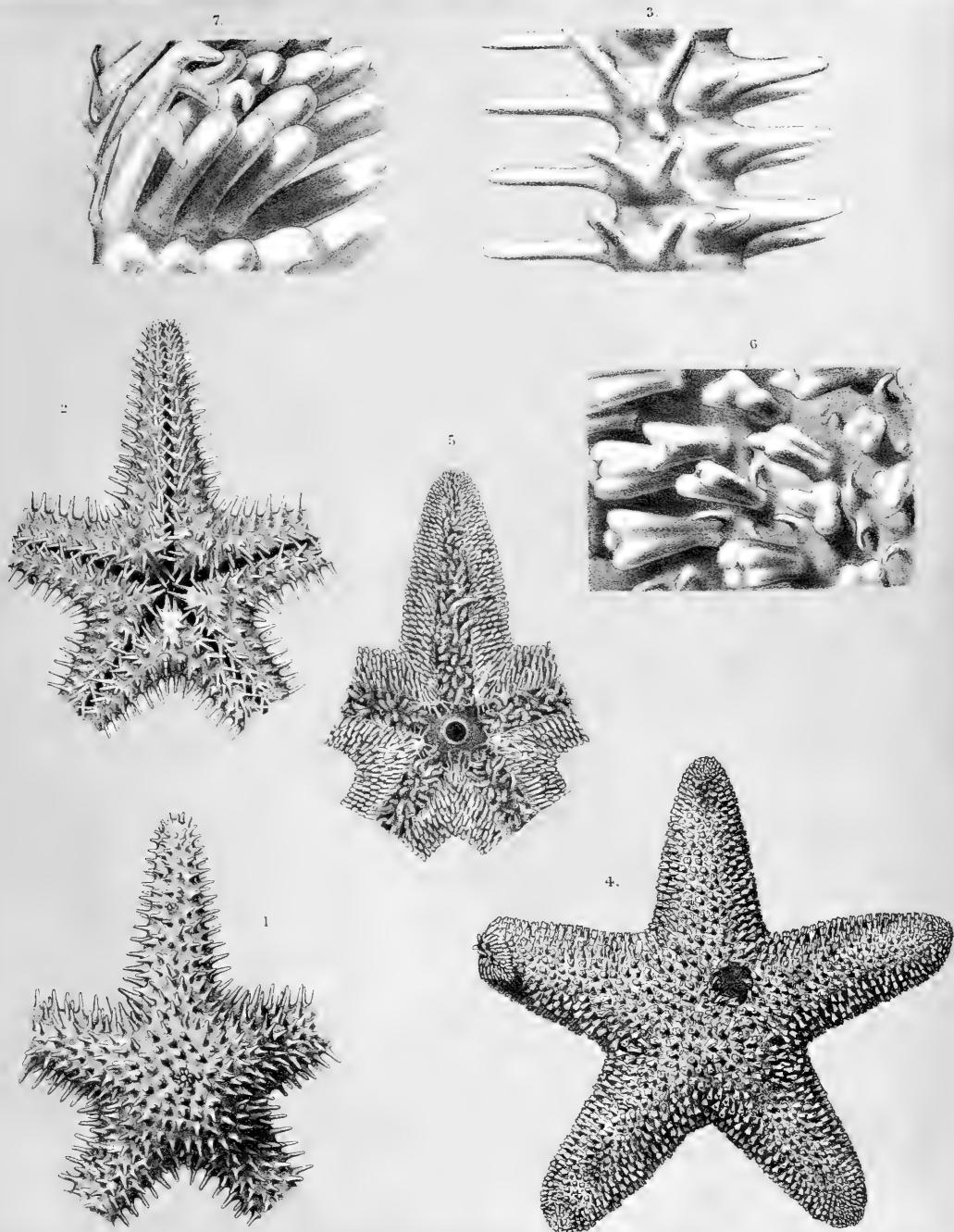


PLATE LXXIV.

PLATE LXXIV.

	Page
Figs. 1, 2. <i>PTERASTER STELLIFER</i> , n. sp.	474
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXXVII. figs. 1, 2.]	
Figs. 3, 4. <i>PTERASTER RUGATUS</i> , n. sp.	473
Fig. 3. Abactinal aspect; magnified 3 diameters.	
Fig. 4. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. LXXVII. figs. 3, 4.]	
Figs. 5, 6. <i>REASTER GIBBER</i> , n. sp.	481
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. LXXVII. figs. 7, 8.]	

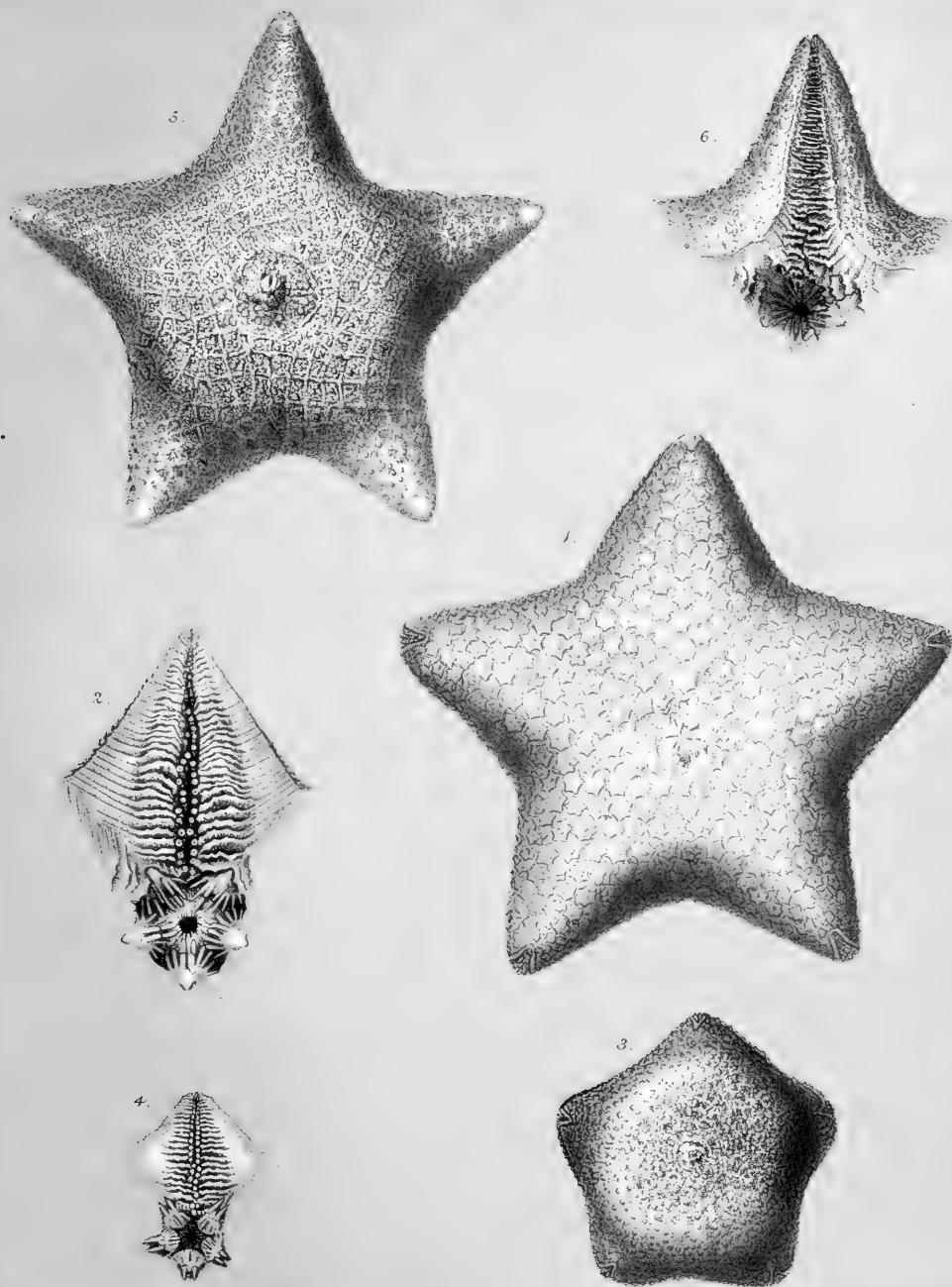
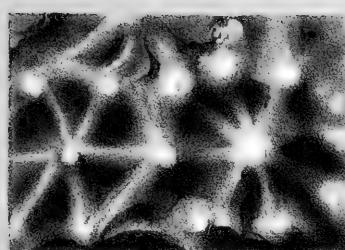
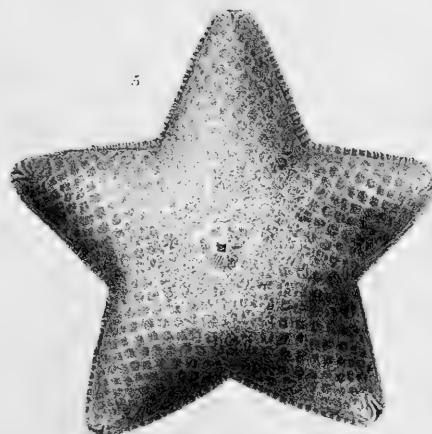
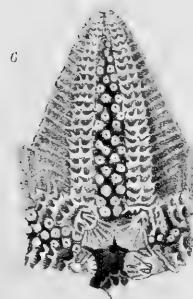
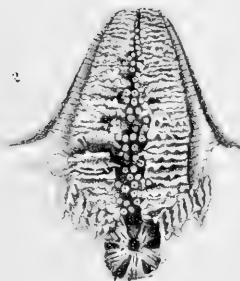
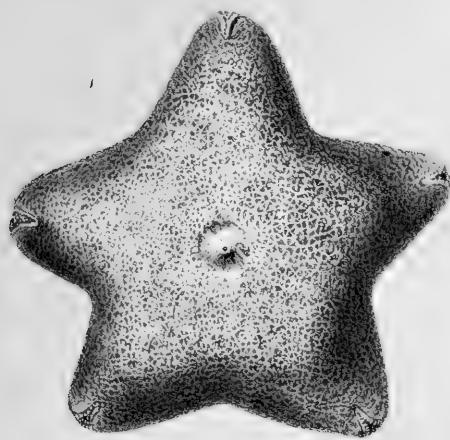


PLATE LXXV.

PLATE LXXV.

	Page
Figs. 1-4. RETASTER PEREGRINATOR, n. sp.	479
Fig. 1. Abactinal aspect; natural size.	
Fig. 2. Actinal aspect; natural size.	
Fig. 3. A portion of the supradorsal membrane; magnified 10 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 5 diameters.	
Figs. 5, 6. PTERASTER SEMIRETICULATUS, n. sp.	475
Fig. 5. Abactinal aspect; magnified 3 diameters.	
Fig. 6. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. LXXVII. figs. 5, 6.]	



1-4. RETASTER PEREGRINATOR, n. sp.

5-6. PTERASTER SEMIRETICULATUS, n. sp.

PLATE LXXVI.

PLATE LXXVI.

Page

478

Figs. 1, 2. RETASTER VERRUCOSUS, n. sp.

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

[For magnified details of this species see Pl. LXXVII. figs. 9, 10.]

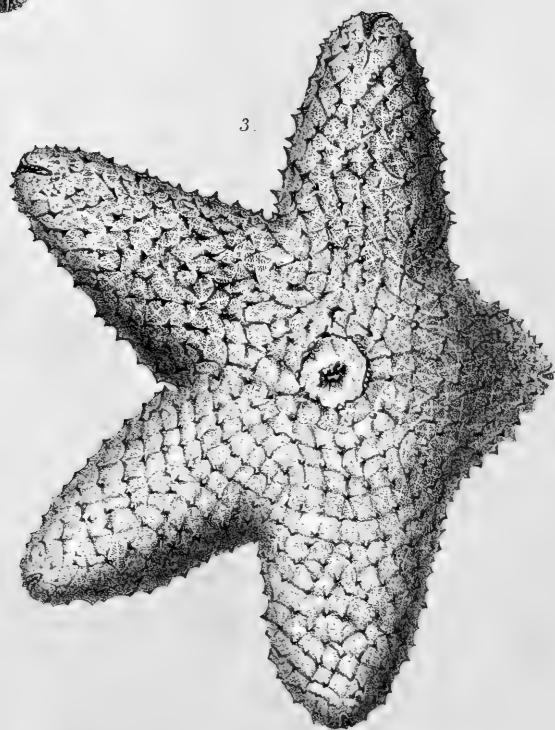
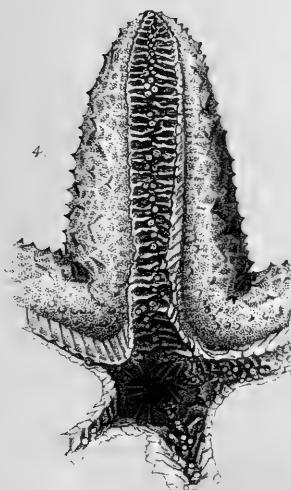
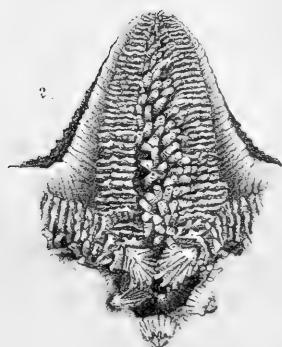
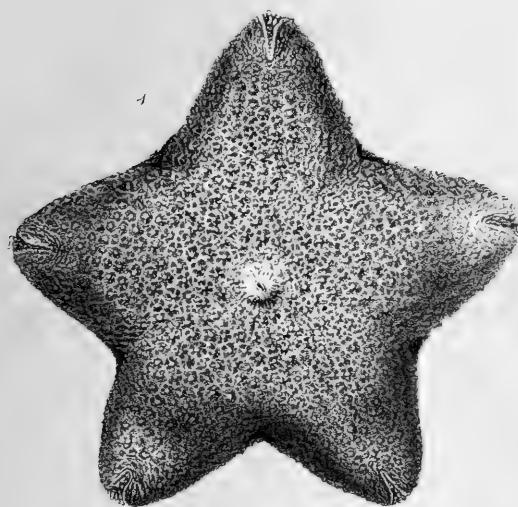
482

Figs. 3, 4. RETASTER INSIGNIS, n. sp.

Fig. 3. Abactinal aspect; natural size.

Fig. 4. Actinal aspect; natural size.

[For magnified details of this species see Pl. LXXVII. figs. 11, 12.]



I-2. RETASTER VERRUCOSUS, n. sp.

3-4. RETASTER INSIGNIS, n. sp.

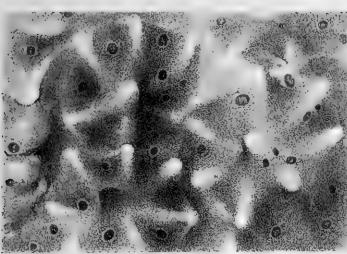
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PLATE LXXVII.

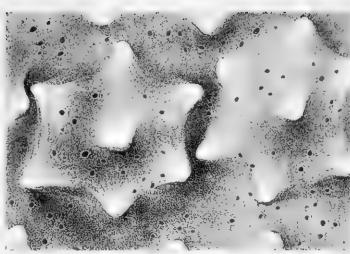
PLATE LXXVII.

	Page
Figs. 1, 2. <i>PTERASTER STELLIFER</i> , n. sp.	474
Fig. 1. A portion of the supradorsal membrane ; magnified 10 diameters.	
Fig. 2. Adambulacral plates and adjacent portion of the actinal surface ; magnified 6 diameters.	
[For macroscopic figures of this species see Pl. LXXIV. figs. 1, 2.]	
Figs. 3, 4. <i>PTERASTER RUGATUS</i> , n. sp.	473
Fig. 3. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface ; magnified 12 diameters.	
[For macroscopic figures of this species see Pl. LXXIV. figs. 3, 4.]	
Figs. 5, 6. <i>PTERASTER SEMIRETICULATUS</i> , n. sp.	475
Fig. 5. A portion of the supradorsal membrane ; magnified 20 diameters.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface ; magnified 14 diameters.	
[For macroscopic figures of this species see Pl. LXXV. figs. 5, 6.]	
Figs. 7, 8. <i>REASTER GIBBER</i> , n. sp.	481
Fig. 7. A portion of the supradorsal membrane ; magnified 12 diameters.	
Fig. 8. Adambulacral plates and adjacent portion of the actinal surface ; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. LXXIV. figs. 5, 6.]	
Figs. 9, 10. <i>REASTER VERRUCOSUS</i> , n. sp.	478
Fig. 9. A portion of the supradorsal membrane ; magnified 10 diameters.	
Fig. 10. Adambulacral plates and adjacent portion of the actinal surface ; magnified 5 diameters.	
[For macroscopic figures of this species see Pl. LXXVI. figs. 1, 2.]	
Figs. 11, 12. <i>REASTER INSIGNIS</i> , n. sp.	482
Fig. 11. A portion of the supradorsal membrane ; magnified 5 diameters.	
Fig. 12. Adambulacral plates and adjacent portion of the actinal surface ; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. LXXVI. figs. 3, 4.]	

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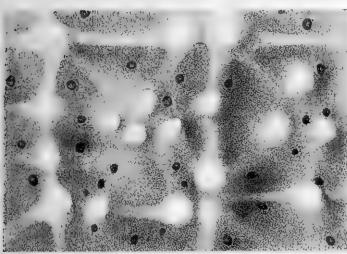
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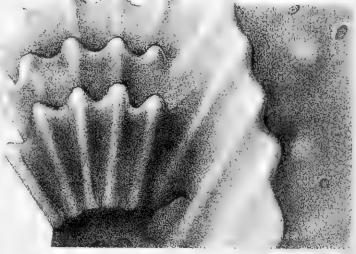
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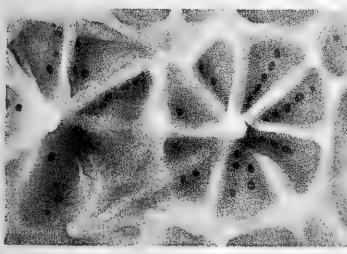
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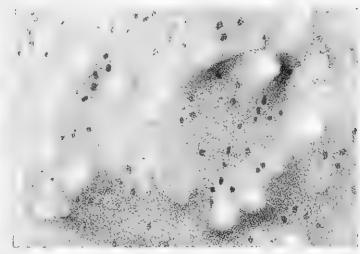
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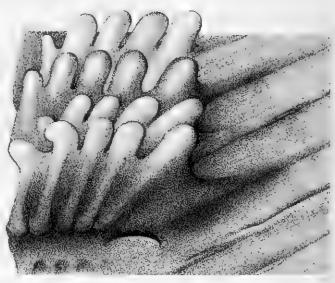
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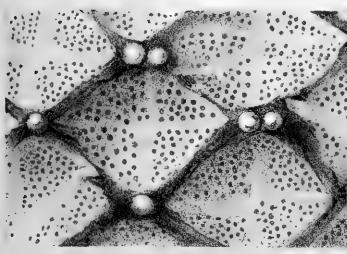
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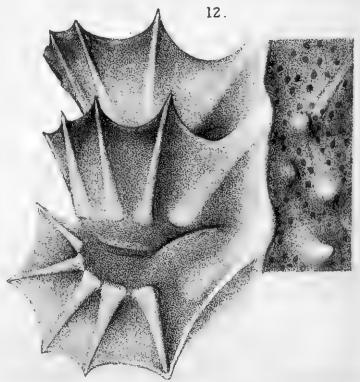
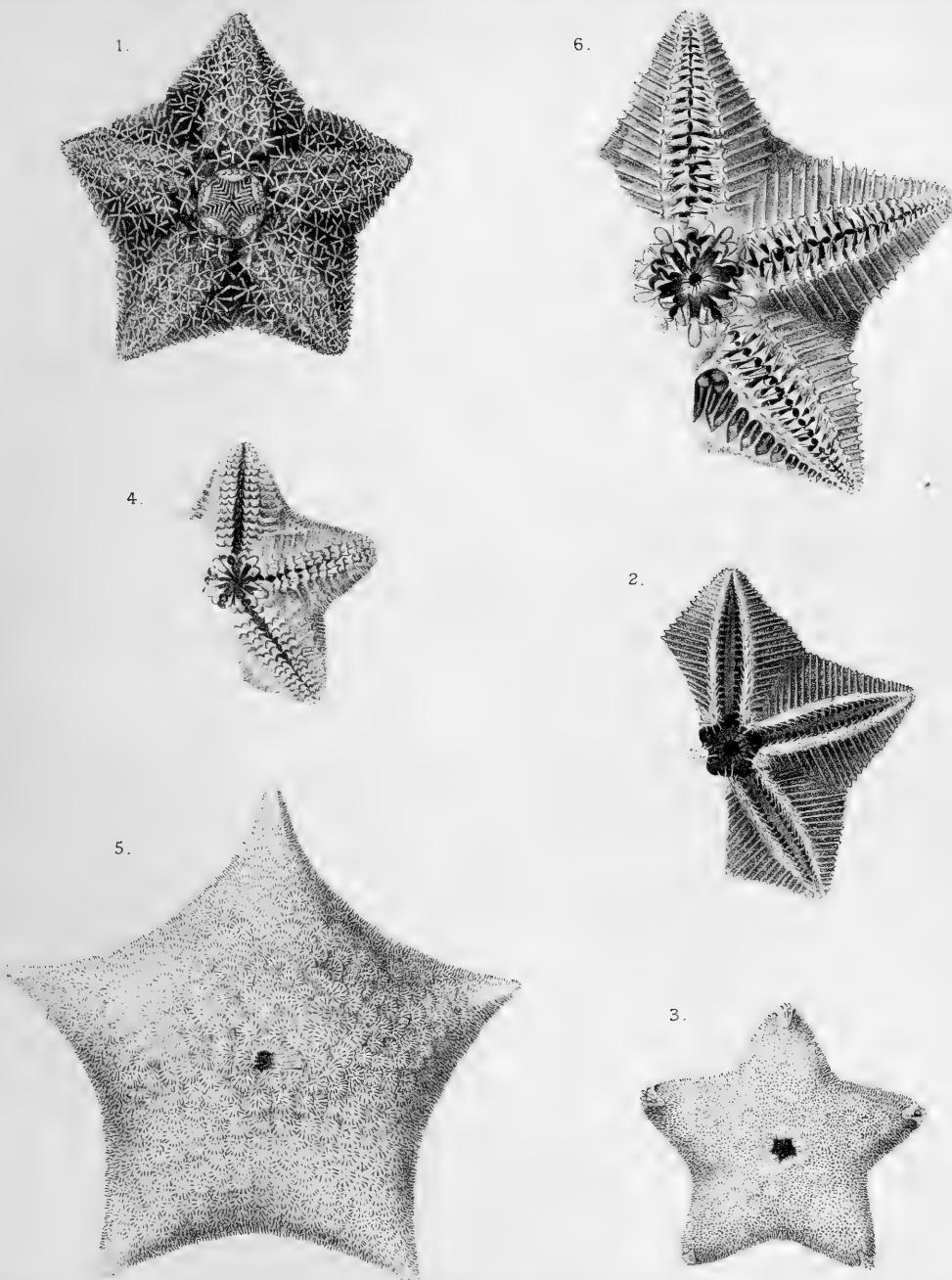


PLATE LXXVIII.

PLATE LXXVIII.

	Page
Figs. 1, 2. <i>CALYPTRASTER COA</i> , n. sp.	489
Fig. 1. Abactinal aspect; magnified 3 diameters.	
Fig. 2. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. LXXIX. figs. 1-3.]	
Figs. 3, 4. <i>MARSIPASTER HIRSUTUS</i> , n. sp.	487
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. LXXIX. figs. 4-6.]	
Figs. 5, 6. <i>MARSIPASTER SPINOSISSIMUS</i> , n. sp.	485
Fig. 5. Abactinal aspect; magnified 3 diameters.	
Fig. 6. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. LXXIX. figs. 7-9.]	



1-2. *CALYPTRASTER COA*, n. sp.

3-4. *MARSIPASTER HIRSUTUS*, n. sp.

5-6. *MARSIPASTER SPINOSISSIMUS*, n. sp.

PLATE LXXIX.

PLATE LXXIX.

	Page
Figs. 1-3. <i>CALYPTRASTER COA</i> , n. sp.	489
Fig. 1. A portion of the supradorsal membrane ; magnified 20 diameters.	
Fig. 2. Mouth-plates ; magnified.	
Fig. 3. Adambulacral plates and adjacent portion of the actinal surface ; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. LXXVIII. figs. 1, 2.]	
Figs. 4-6. <i>MARSIPASTER HIRSUTUS</i> , n. sp.	487
Fig. 4. A portion of the supradorsal membrane ; magnified 20 diameters.	
Fig. 5. Mouth-plates ; magnified.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface ; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. LXXVIII. figs. 3, 4.]	
Figs. 7-9. <i>MARSIPASTER SPINOSISSIMUS</i> , n. sp.	485
Fig. 7. A portion of the supradorsal membrane ; magnified 20 diameters.	
Fig. 8. Mouth-plates ; magnified.	
Fig. 9. Adambulacral plates and adjacent portion of the actinal surface ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. LXXVIII. figs. 5, 6.]	

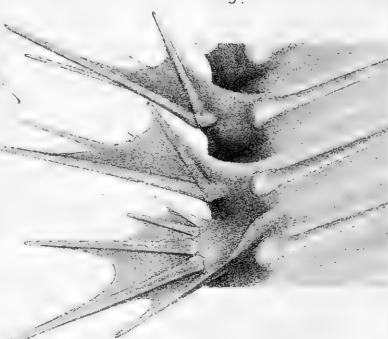
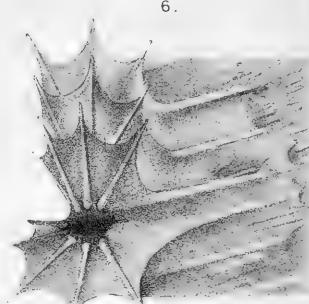
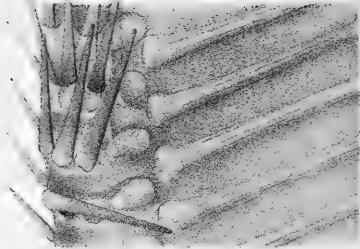
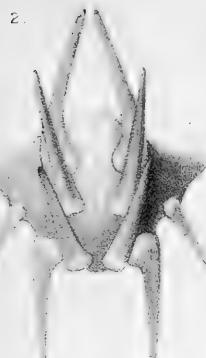
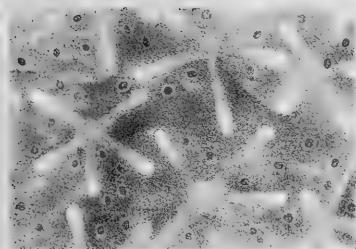
1-3. *CALYPTASTER COA*, n. sp.4-6. *MARSIPASTER HIRSUTUS*, n. sp.7-9. *MARSIPASTER SPINOSISSIMUS*, n. sp.

PLATE LXXX.

PLATE LXXX.

	Page
Figs. 1-5. HYMENASTER PELLUCIDUS, Wyville Thomson,	508
Fig. 1. Abactinal aspect; magnified 3 diameters.	
Fig. 2. Actinal aspect; magnified 3 diameters.	
Fig. 3. A portion of the supradorsal membrane; magnified 20 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 18 diameters.	
Fig. 5. Mouth-plates; magnified.	
Figs. 6-9. KORETHRASTER HISPIDUS, Wyville Thomson,	464
Fig. 6. Abactinal aspect; magnified 4 diameters.	
Fig. 7. Actinal aspect; magnified 4 diameters.	
Fig. 8. A portion of the abactinal surface; magnified 24 diameters.	
Fig. 9. Adambulacral plates and adjacent portion of the actinal surface; magnified 35 diameters.	

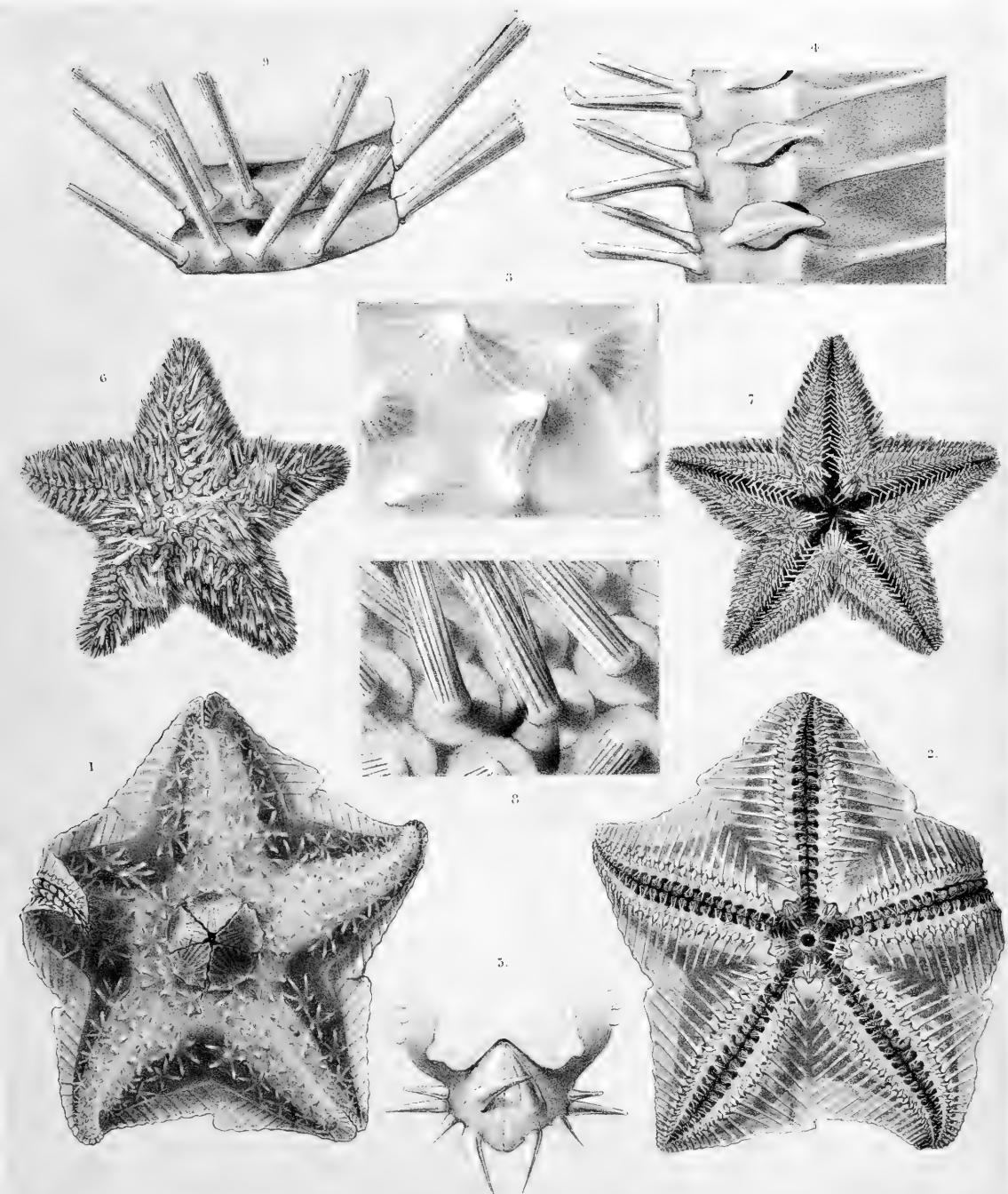




PLATE LXXXI.

PLATE LXXXI.

	Page
Figs. 1, 2. HYMENASTER PERGAMENTACEUS, n. sp.	499
Fig. 1. Abactinal aspect; natural size.	
Fig. 2. Actinal aspect; natural size.	
[For magnified details of this species see Pl. LXXXIII. figs. 1-3.]	
Figs. 3, 4. HYMENASTER FORMOSUS, n. sp.	497
Fig. 3. Abactinal aspect; magnified 3 diameters.	
Fig. 4. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. LXXXIII. figs. 4-6.]	

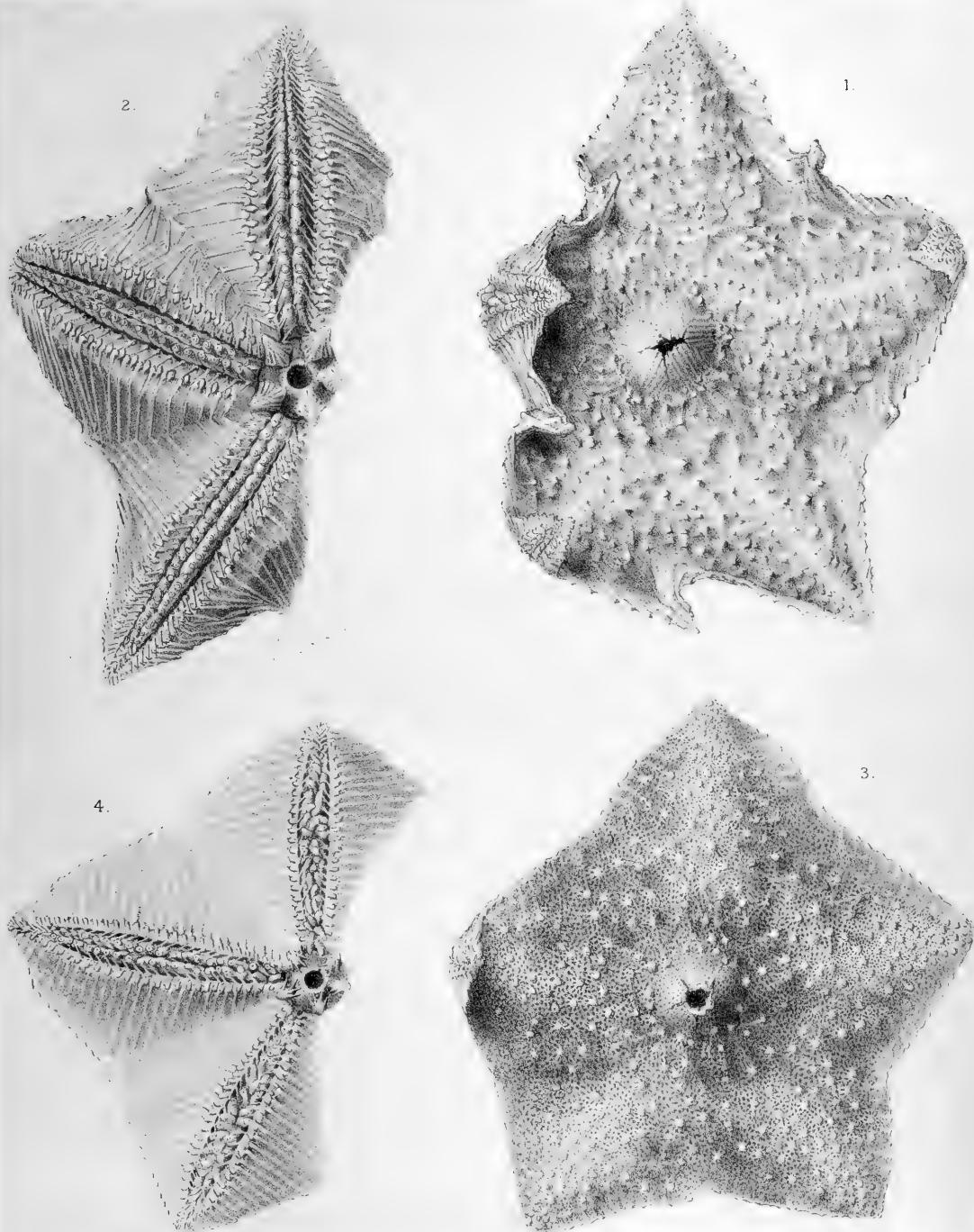


PLATE LXXXII.

PLATE LXXXII.

	Page
Figs. 1, 2. HYMENASTER ECHINULATUS, n. sp.	502
Fig. 1. Abactinal aspect; magnified 3 diameters.	
Fig. 2. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. LXXXIII. figs. 7-9.]	
Figs. 3, 4. HYMENASTER POROSISSIMUS, n. sp.	515
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXXXIII. figs. 10-12.]	

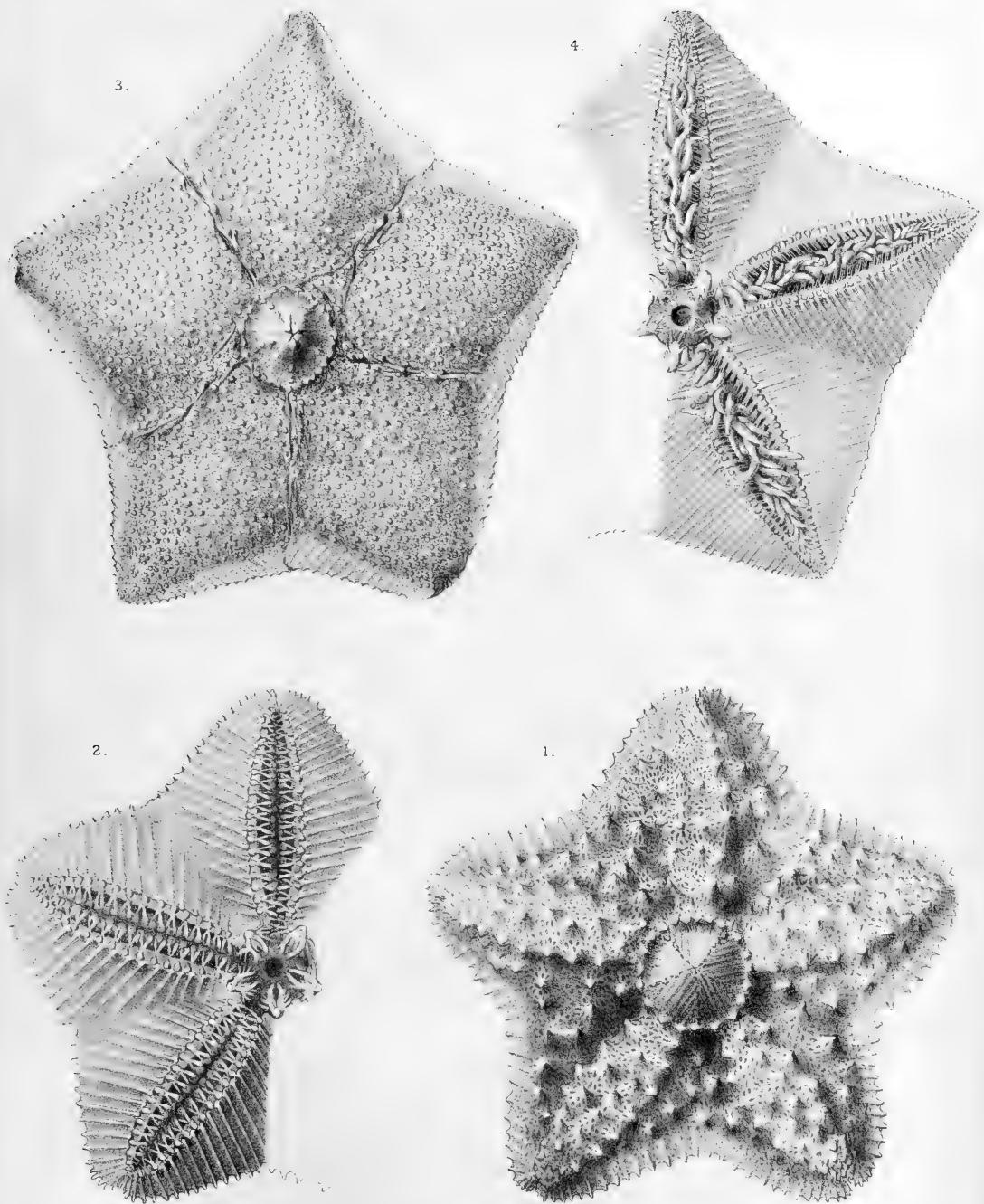


PLATE LXXXIII.

PLATE LXXXIII.

	Page
Figs. 1-3. <i>HYMENASTER PERGAMENTACEUS</i> , n. sp.	499

Fig. 1. A portion of the supradorsal membrane ; magnified 10 diameters.

Fig. 2. Mouth-plates ; magnified.

Fig. 3. Adambulacral plates and adjacent portion of the actinal surface ; magnified 7 diameters.

[For macroscopic figures of this species see Pl. LXXXI. figs. 1, 2.]

Figs. 4-6. <i>HYMENASTER FORMOSUS</i> , n. sp.	497
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Fig. 4. A portion of the supradorsal membrane ; magnified 16 diameters.

Fig. 5. Mouth-plates ; magnified.

Fig. 6. Adambulacral plates and adjacent portion of the actinal surface ; magnified 15 diameters.

[For macroscopic figures of this species see Pl. LXXXI. figs. 3, 4.]

Figs. 7-9. <i>HYMENASTER ECHINULATUS</i> , n. sp.	502
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Fig. 7. A portion of the supradorsal membrane ; magnified 15 diameters.

Fig. 8. Mouth-plates ; magnified.

Fig. 9. Adambulacral plates and adjacent portion of the actinal surface ; magnified 16 diameters.

[For macroscopic figures of this species see Pl. LXXXII. figs. 1, 2.]

Figs. 10-12. <i>HYMENASTER POROSISSIMUS</i> , n. sp.	515
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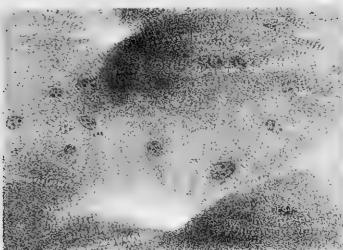
Fig. 10. A portion of the supradorsal membrane ; magnified 10 diameters.

Fig. 11. Mouth-plates ; magnified.

Fig. 12. Adambulacral plates and adjacent portion of the actinal surface ; magnified 8 diameters.

[For macroscopic figures of this species see Pl. LXXXII. figs. 3, 4.]

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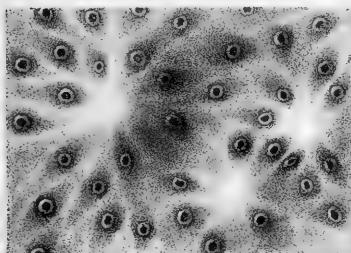
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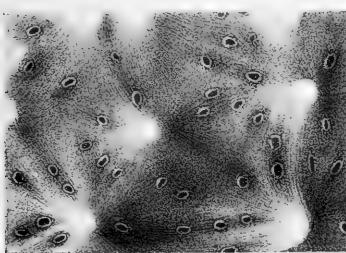
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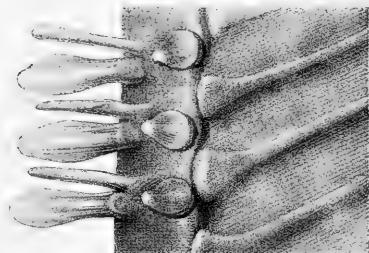
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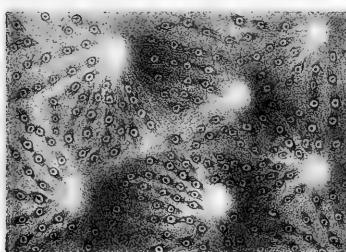
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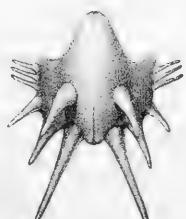
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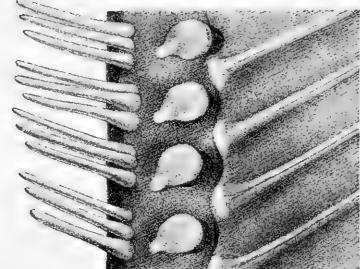


PLATE LXXXIV.

PLATE LXXXIV.

	Page
Figs. 1, 2. HYMENASTER GLAUCUS, n. sp.	505

Fig. 1. Abactinal aspect ; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect ; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. LXXXVI. figs. 4-6.]

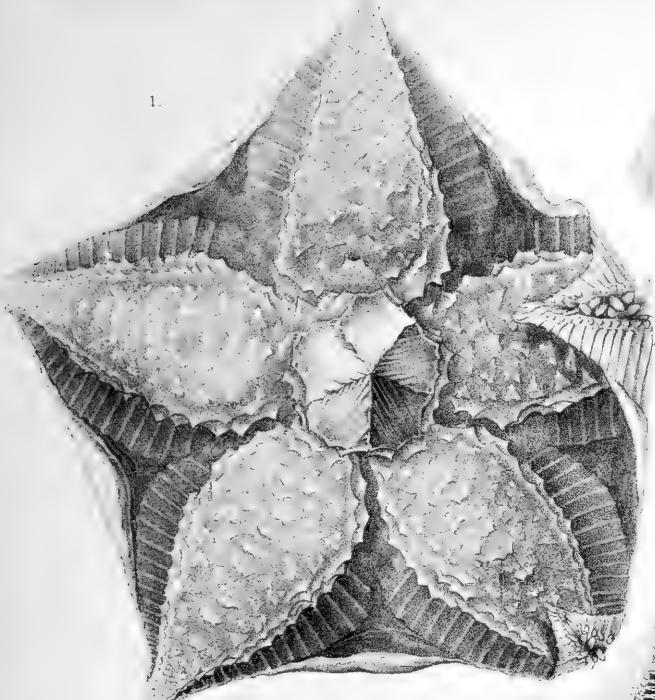
Figs. 3, 4. HYMENASTER VICARIUS, n. sp.	507
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Fig. 3. Abactinal aspect ; magnified $1\frac{1}{2}$ diameters.

Fig. 4. Actinal aspect ; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. LXXXVI. figs. 1-3.]

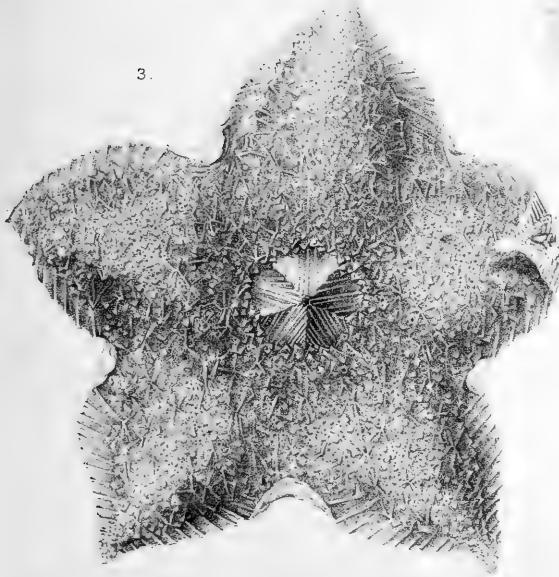
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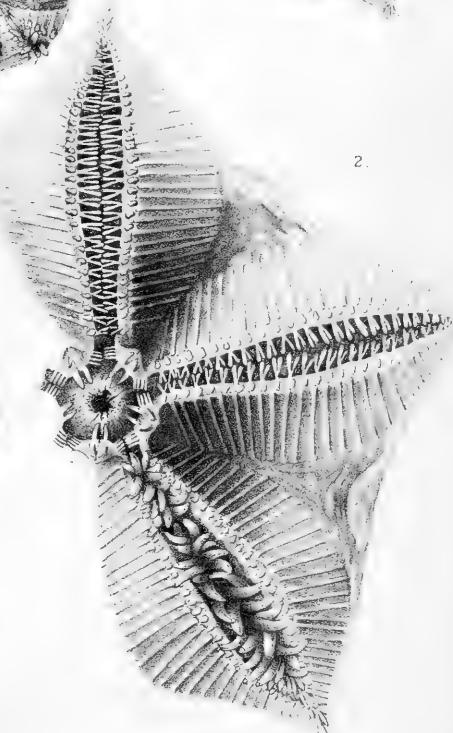


PLATE LXXXV.

PLATE LXXXV.

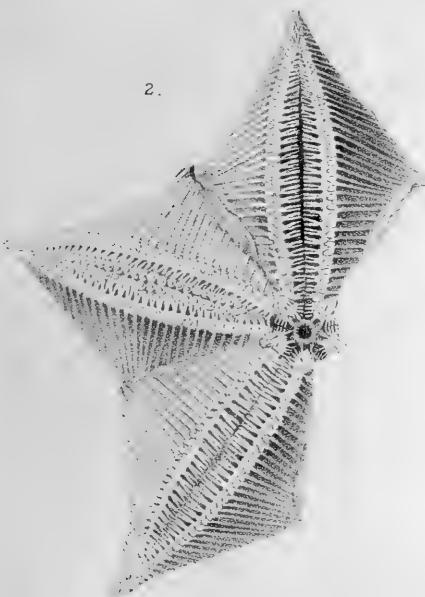
	Page
Figs. 1-3. HYMENASTER SACCULATUS, n. sp.	501
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 3. Profile view of a small example; magnified $1\frac{1}{2}$ diameters.	

[For magnified details of this species see Pl. LXXXVI. figs. 7-9.]

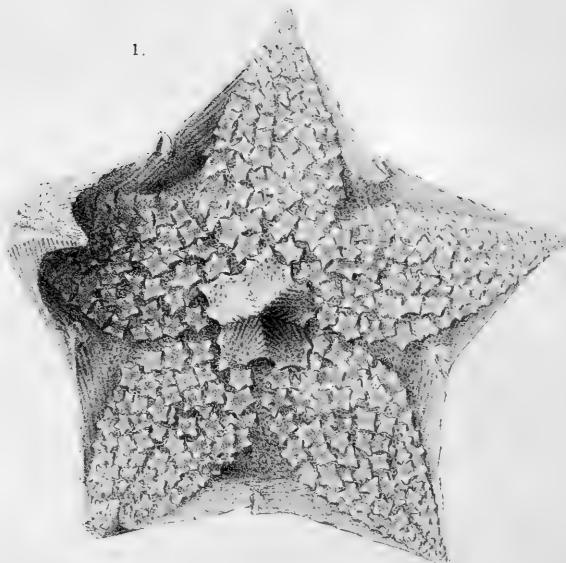
Figs. 4, 5. HYMENASTER CÆLATUS, n. sp.	509
Fig. 4. Abactinal aspect; magnified 2 diameters.	
Fig. 5. Profile view of the same; magnified 2 diameters.	

[For magnified details of this species see Pl. LXXXVI. figs. 10-12.]

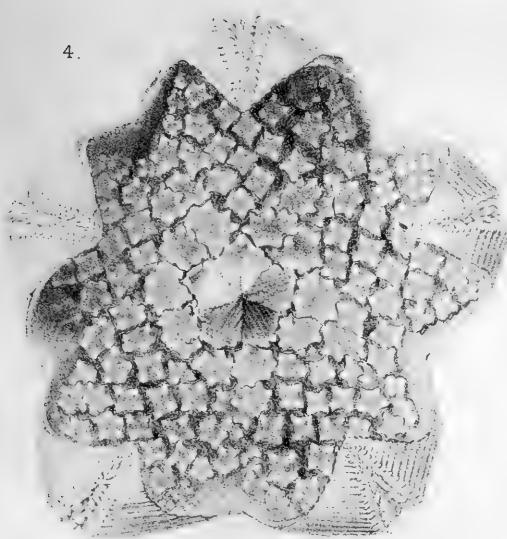
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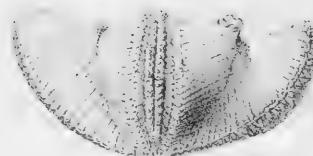
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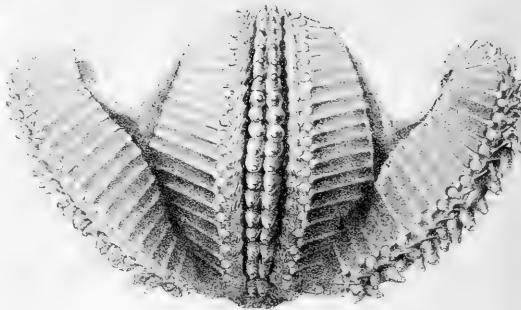
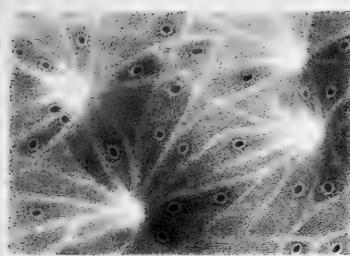


PLATE LXXXVI.

PLATE LXXXVI.

	Page
Figs. 1-3. HYMENASTER VICARIUS, n. sp.	507
Fig. 1. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 2. Mouth-plates ; magnified.	
Fig. 3. Adambulacral plates and adjacent portion of the actinal surface ; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. LXXXIV. figs. 3, 4.]	
Figs. 4-6. HYMENASTER GLAUCUS, n. sp.	505
Fig. 4. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 5. Mouth-plates ; magnified.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. LXXXIV. figs. 1, 2.]	
Figs. 7-9. HYMENASTER SACCULATUS, n. sp.	501
Fig. 7. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 8. Mouth-plates ; magnified.	
Fig. 9. Adambulacral plates and adjacent portion of the actinal surface ; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. LXXXV. figs. 1-3.]	
Figs. 10-12. HYMENASTER CÆLATUS, n. sp.	509
Fig. 10. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 11. Mouth-plates ; magnified.	
Fig. 12. Adambulacral plates and adjacent portion of the actinal surface ; magnified 8 diameters.	
[For macroscopic figures of this species see Pl. LXXXV. figs. 4, 5.]	

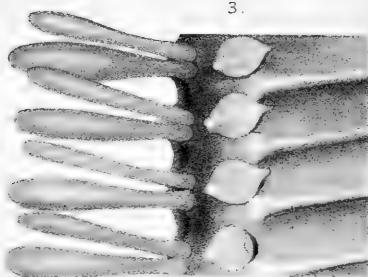
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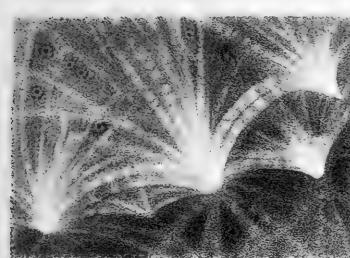
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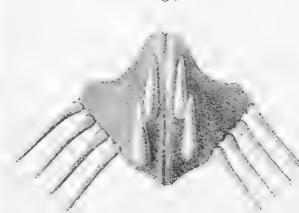
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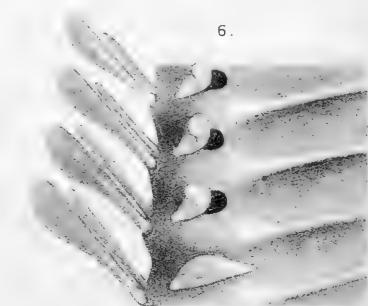
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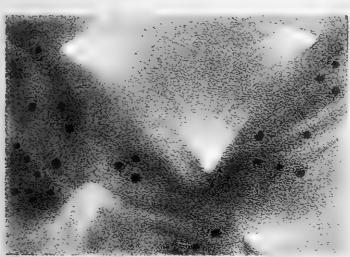
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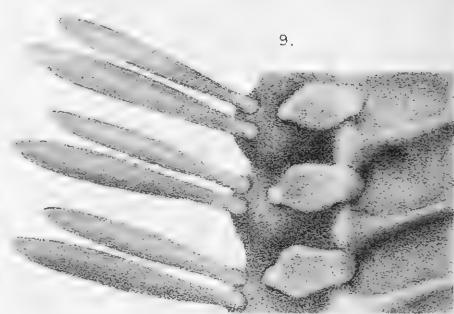
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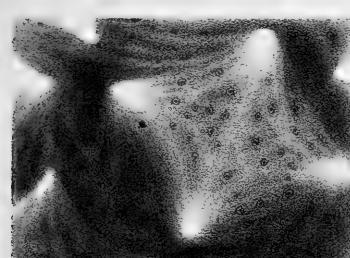
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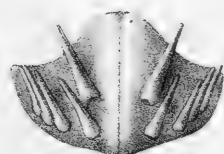
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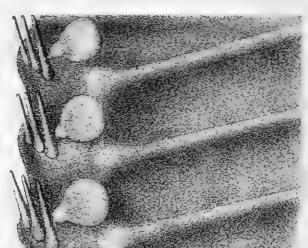


PLATE LXXXVII.

PLATE LXXXVII.

	Page
Figs. 1-3. HYMENASTER NOBILIS, Wyville Thomson,	495

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

Fig. 3. Adambulacral plates and adjacent portion of the actinal surface; magnified 3 diameters.

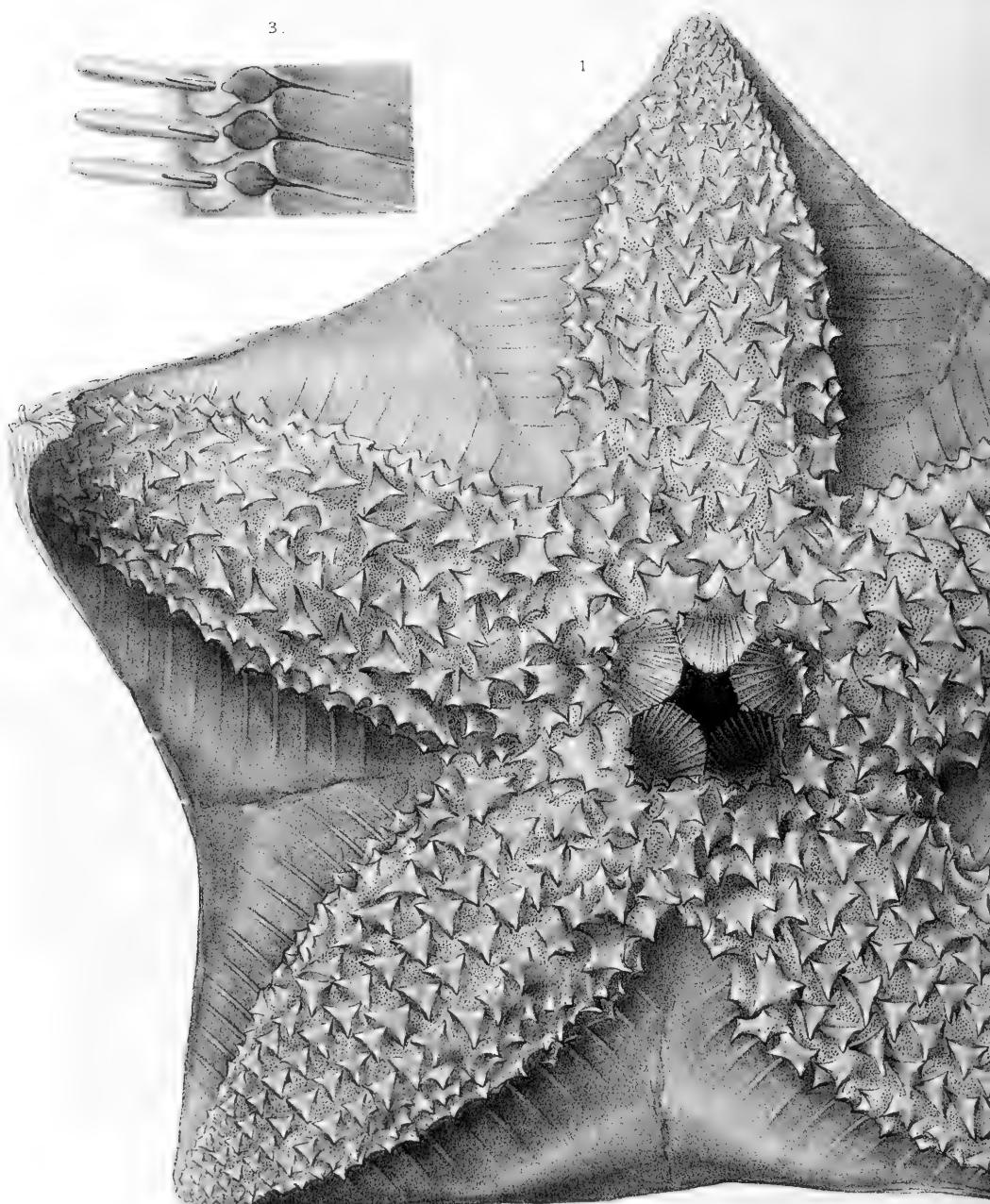
Figs. 4-7. HYMENASTER INFERNALIS, n. sp.	508
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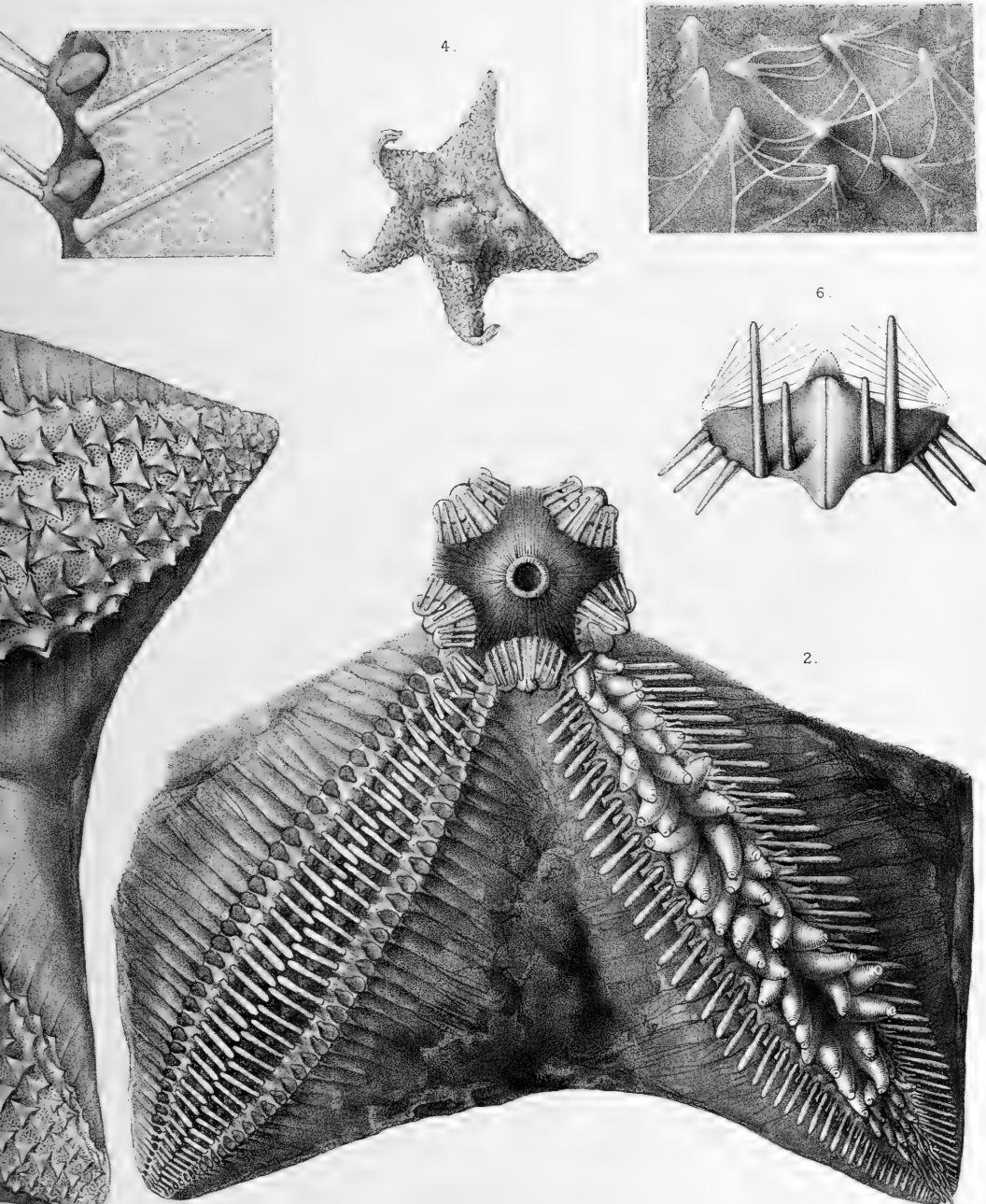
Fig. 4. Abactinal aspect; natural size.

Fig. 5. A portion of the supradorsal membrane; magnified 15 diameters.

Fig. 6. Mouth-plates; magnified.

Fig. 7. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.





4-7. HYMENASTER INFERNALIS, n. sp.

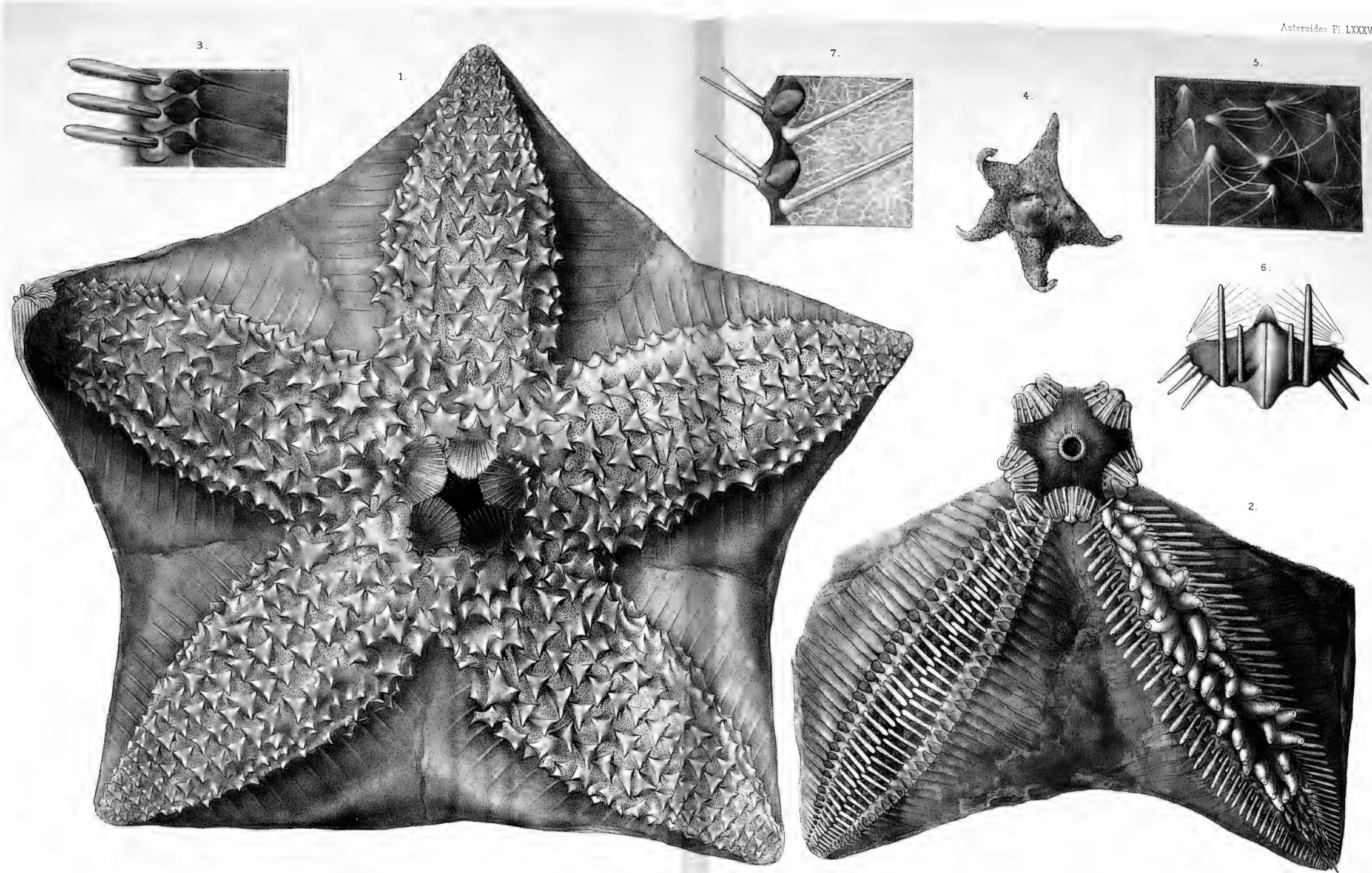


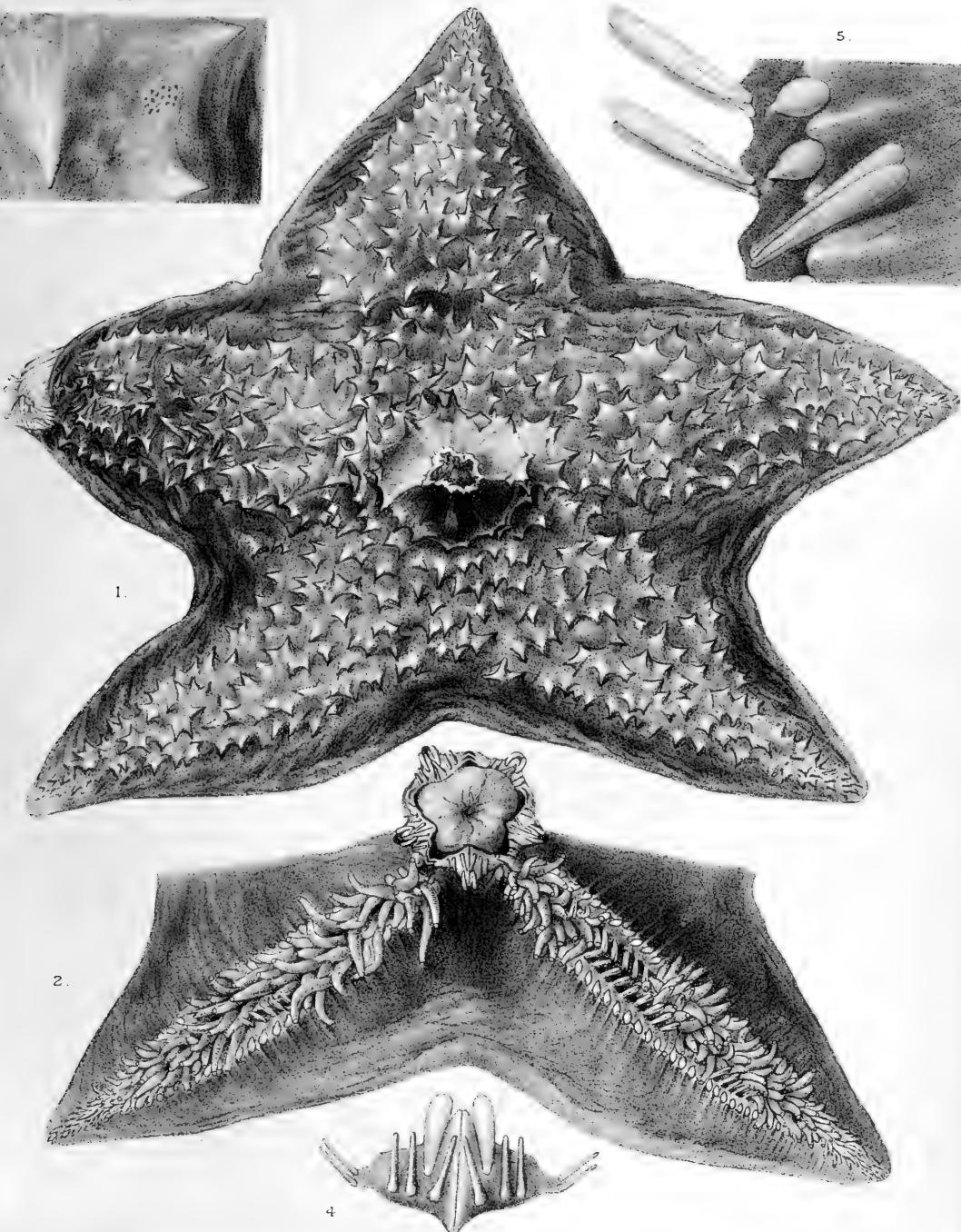
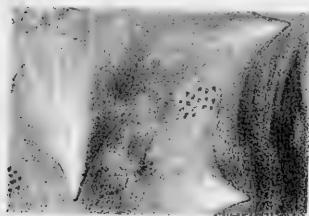


PLATE LXXXVIII.

PLATE LXXXVIII.

	Page
Figs. 1-5. HYMENASTER CARNOSUS, n. sp.	504
Fig. 1. Abactinal aspect ; natural size.	
Fig. 2. Actinal aspect ; natural size.	
Fig. 3. A portion of the supradorsal membrane ; magnified 8 diameters.	
Fig. 4. Mouth-plates ; magnified.	
Fig. 5. Adambulacral plates and adjacent portion of the actinal surface ; magnified 4 diameters.	

3.



4.



5.



HYMENASTER CARNOSUS, n.sp.

P. H. Mich. de

PLATE LXXXIX.

PLATE LXXXIX.

	Page
Figs. 1, 2. <i>HYMENASTER CRUCIFER</i> , n. sp.	511
Fig. 1. Abactinal aspect ; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect ; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCI. figs. 1-3.]	
Figs. 3, 4. <i>HYMENASTER ANOMALUS</i> , n. sp.	512
Fig. 3. Abactinal aspect ; magnified 3 diameters.	
Fig. 4. Actinal aspect ; magnified 3 diameters.	
[For magnified details of this species see Pl. XCI. figs. 4-6.]	

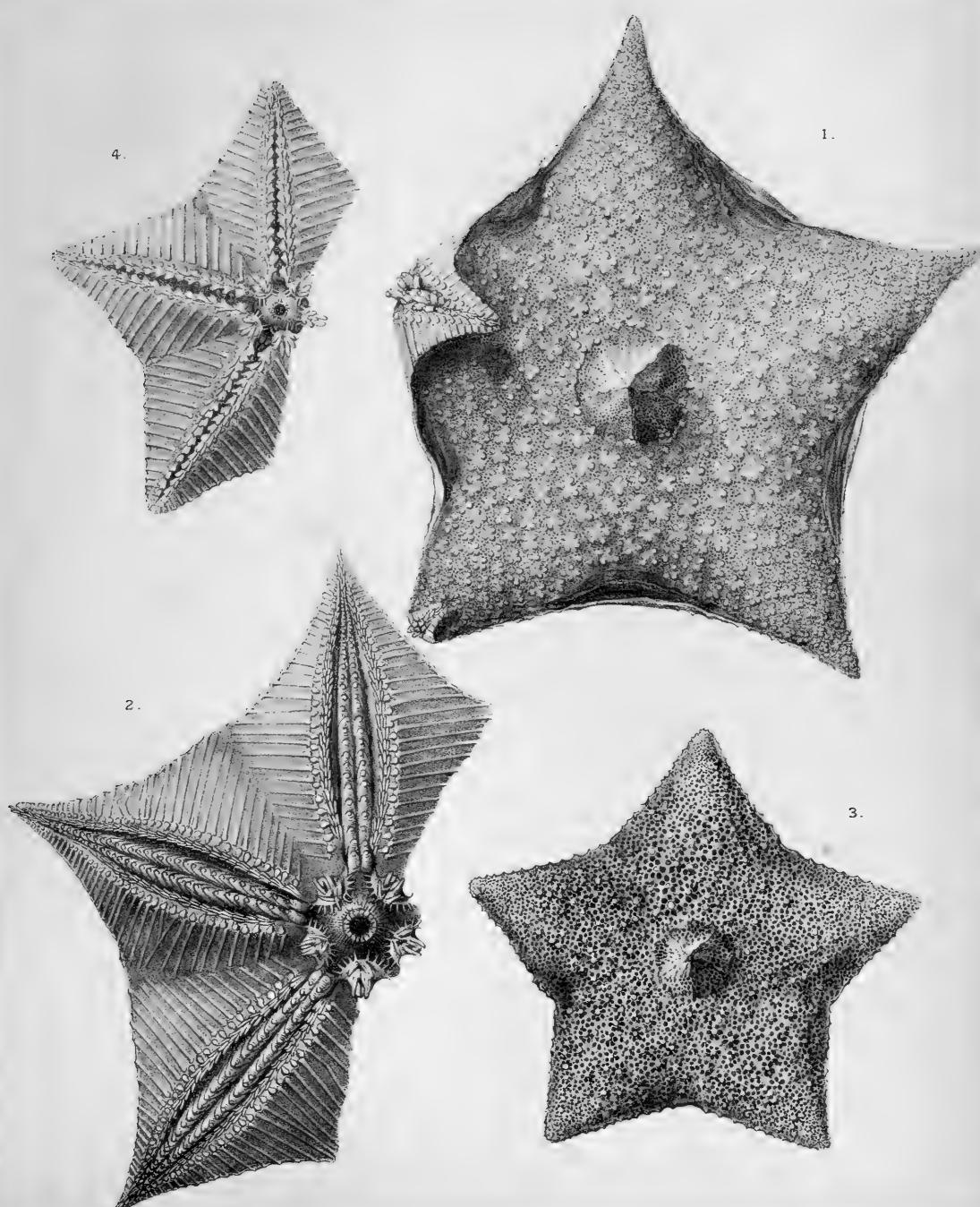
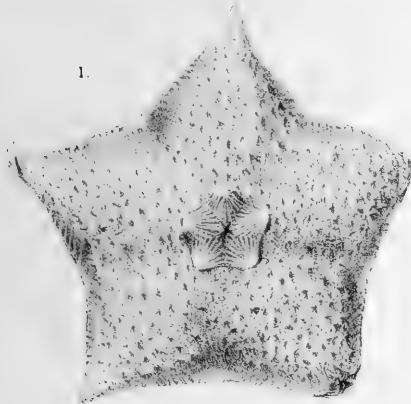


PLATE XC.

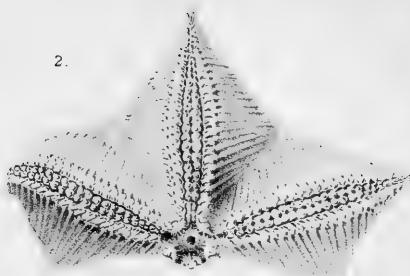
PLATE XC.

	Page
Figs. 1, 2. HYMENASTER GRANIFERUS, n. sp.	517
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCI. figs. 7-9.]	
Figs. 3, 4. HYMENASTER COCCINATUS, n. sp.	522
Fig. 3. Abactinal aspect; magnified 3 diameters.	
Fig. 4. Actinal aspect; magnified 3 diameters.	
[For magnified details of this species see Pl. XCI. figs. 10-12.]	
Figs. 5, 6. HYMENASTER PRÆCOQUIS, n. sp.	524
Fig. 5. Abactinal aspect; magnified 4 diameters.	
Fig. 6. Actinal aspect; magnified 4 diameters.	
(The young contained in the nidamental cavity may be seen through the membrane, and are exposed at the rent in one of the interradial areas.) .	
[For magnified details of this species see Pl. XCI. figs. 13-15.]	

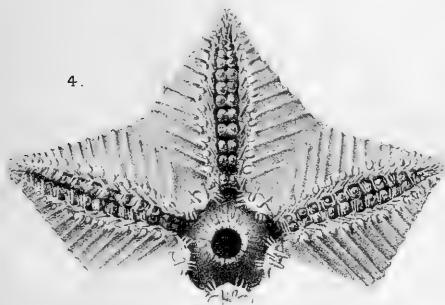
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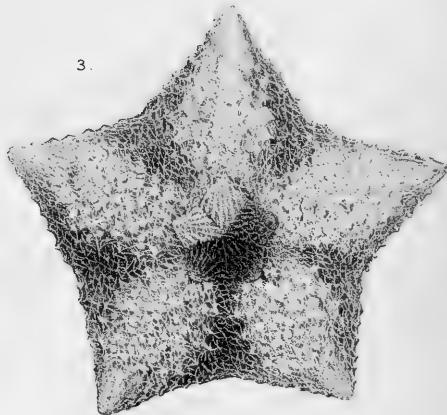
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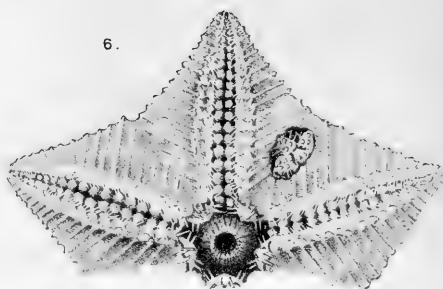


PLATE XCI.

PLATE XCI.

	Page
Figs. 1-3. HYMENASTER CRUCIFER, n. sp.	511
Fig. 1. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 2. Mouth-plates ; magnified.	
Fig. 3. Adamambulacral plates and adjacent portion of the actinal surface ; magnified 5 diameters.	
[For macroscopic figures of this species see Pl. LXXXIX. figs. 1, 2.]	
Figs. 4-6. HYMENASTER ANOMALUS, n. sp.	512
Fig. 4. A portion of the supradorsal membrane ; magnified 30 diameters.	
Fig. 5. Mouth-plates ; magnified.	
Fig. 6. Adamambulacral plates and adjacent portion of the actinal surface ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. LXXXIX. figs. 3, 4.]	
Figs. 7-9. HYMENASTER GRANIFERUS, n. sp.	517
Fig. 7. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 8. Mouth-plates ; magnified.	
Fig. 9. Adamambulacral plates and adjacent portion of the actinal surface ; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XC. figs. 1, 2.]	
Figs. 10-12. HYMENASTER COCCINATUS, n. sp.	522
Fig. 10. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 11. Mouth-plates ; magnified.	
Fig. 12. Adamambulacral plates and adjacent portion of the actinal surface ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XC. figs. 3, 4.]	
Figs. 13-15. HYMENASTER PRÆCOQUIS, n. sp.	524
Fig. 13. A portion of the supradorsal membrane ; magnified 15 diameters.	
Fig. 14. Mouth-plates ; magnified.	
Fig. 15. Adamambulacral plates and adjacent portion of the actinal surface ; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XC. figs. 5, 6.]	

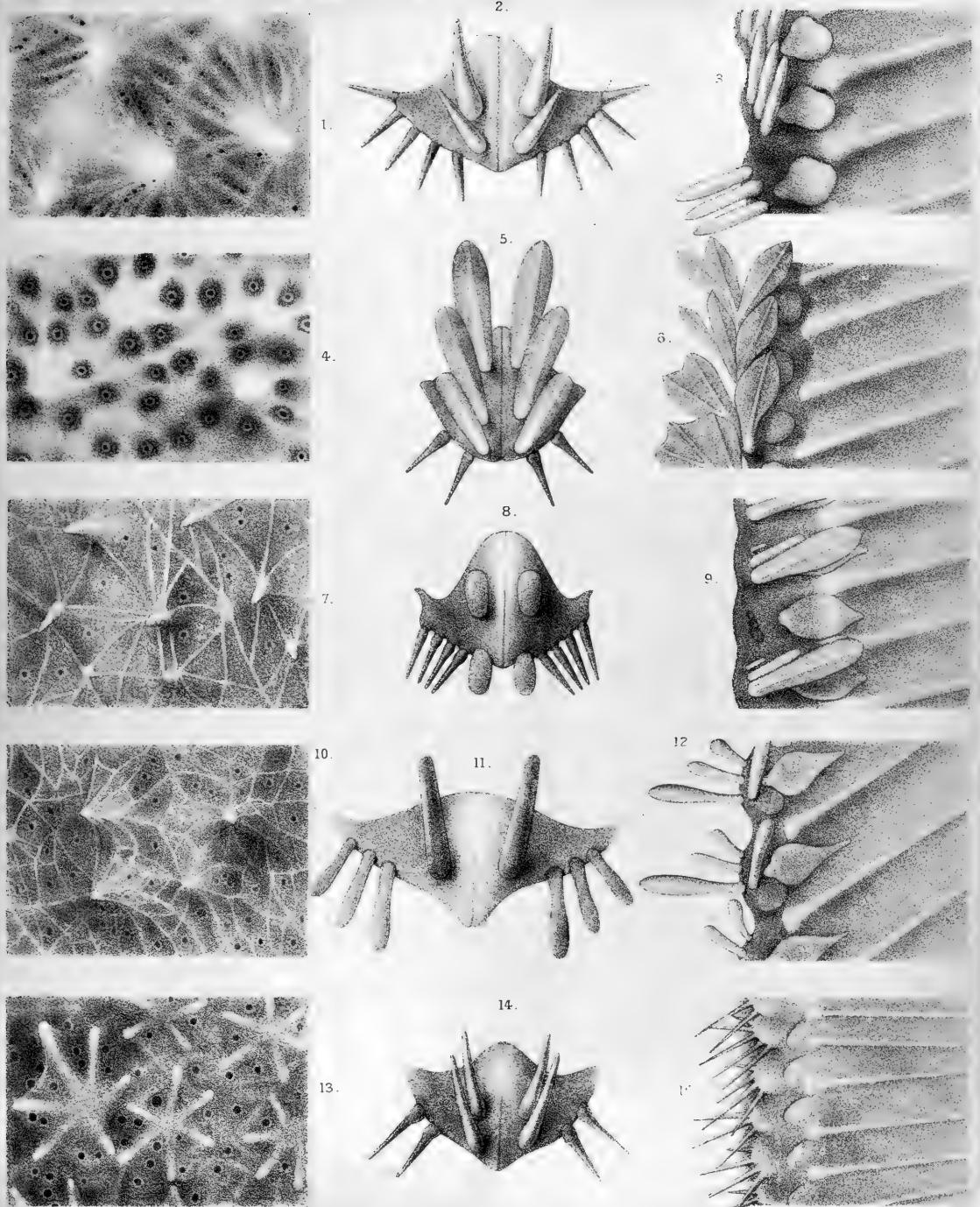


PLATE XCII.

PLATE XCII.

	Page
Fig. 1. HYMENASTER PULLATUS, n. sp.	519
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCIII. figs. 1-3.]	
Figs. 2, 3. HYMENASTER GEOMETRICUS, n. sp.	518
Fig. 2. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 3. Profile view, showing the actinal interradial area (partly diagrammatic); magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCIII. figs. 4-6.]	
Figs. 4, 5. HYMENASTER LATEBROSUS, n. sp.	514
Fig. 4. Abactinal aspect; magnified 2 diameters.	
Fig. 5. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XCIII. figs. 7-9.]	
Figs. 6, 7. HYMENASTER MEMBRANACEUS, Wyville Thomson,	521
Fig. 6. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 7. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCIII. figs. 10-12.]	

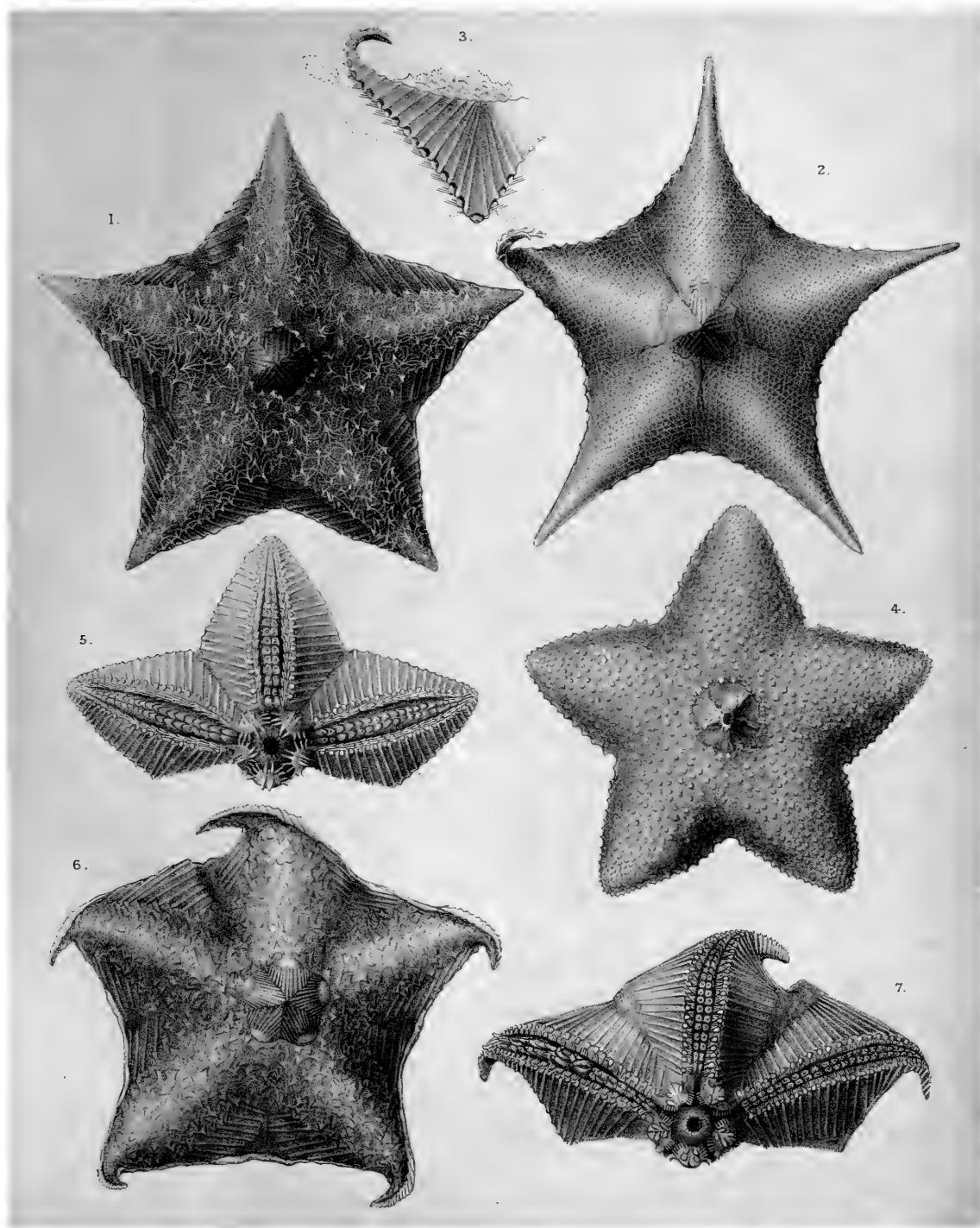


PLATE XCIII.

PLATE XCIII.

	Page
Figs. 1-3. <i>HYMENASTER PULLATUS</i> , n. sp.	519

Fig. 1. A portion of the supradorsal membrane; magnified 15 diameters.

Fig. 2. Mouth-plates; magnified.

Fig. 3. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

[For a macroscopic figure of this species see Pl. XCII. fig. 1.]

Figs. 4-6. <i>HYMENASTER GEOMETRICUS</i> , n. sp.	518
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Fig. 4. A portion of the supradorsal membrane; magnified 15 diameters.

Fig. 5. Mouth-plates; magnified.

Fig. 6. Adambulacral plates and adjacent portion of the actinal surface; magnified 5 diameters.

[For macroscopic figures of this species see Pl. XCII. figs. 2, 3.]

Figs. 7-9. <i>HYMENASTER LATERBROSUS</i> , n. sp.	514
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Fig. 7. A portion of the supradorsal membrane; magnified 15 diameters.

Fig. 8. Mouth-plates; magnified.

Fig. 9. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

[For macroscopic figures of this species see Pl. XCII. figs. 4, 5.]

Figs. 10-12. <i>HYMENASTER MEMBRANACEUS</i> , Wyville Thomson,	521
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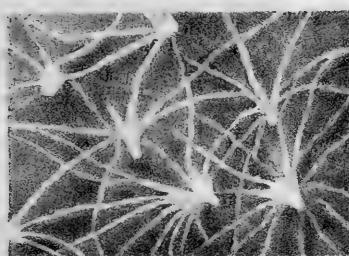
Fig. 10. A portion of the supradorsal membrane; magnified 15 diameters.

Fig. 11. Mouth-plates; magnified.

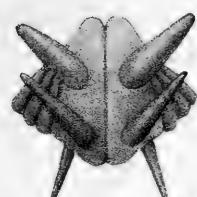
Fig. 12. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

[For macroscopic figures of this species see Pl. XCII. figs. 6, 7.]

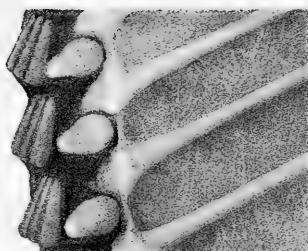
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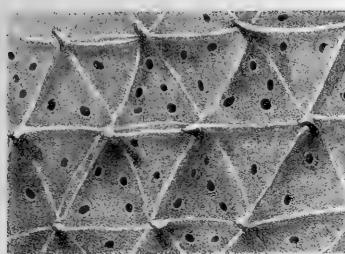
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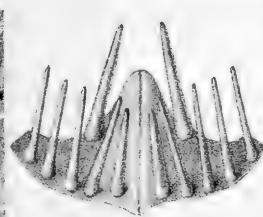
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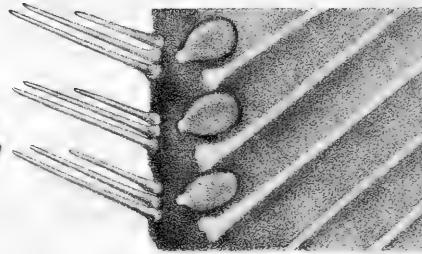
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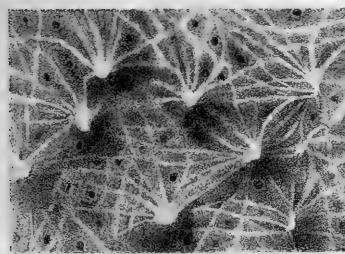
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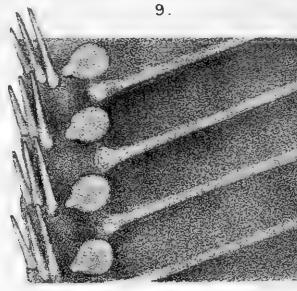
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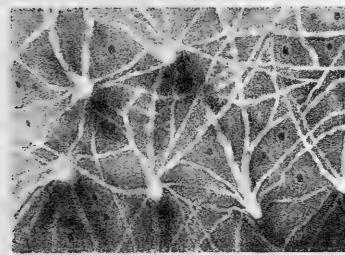
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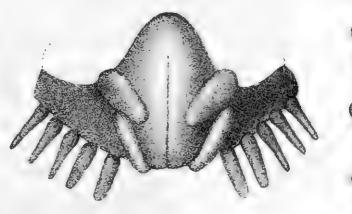
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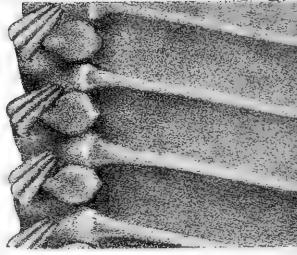


PLATE XCIV.

PLATE XCIV.

	Page
Figs. 1-5. <i>BENTHASTER WYVILLE-TOMSONI</i> , n. sp.	527
Fig. 1. Abactinal aspect; magnified 2 diameters.	
Fig. 2. Actinal aspect; magnified 2 diameters.	
Fig. 3. Adambulacral plates and adjacent portion of the actinal surface; magnified 18 diameters.	
Fig. 4. Diagrammatic view of the abactinal paxillæ and rudimentary supradorsal membrane, seen in profile; magnified.	
Fig. 5. Diagram of the plates on the outer part of a ray; magnified.	

Figs. 6-9. <i>BENTHASTER PENICILLATUS</i> , n. sp.	529
Fig. 6. Abactinal aspect; magnified 2 diameters.	
Fig. 7. Actinal aspect; magnified 2 diameters.	
Fig. 8. Adambulacral plates and adjacent portion of the actinal surface; magnified.	
Fig. 9. Diagram of the plates on the outer part of a ray; magnified.	

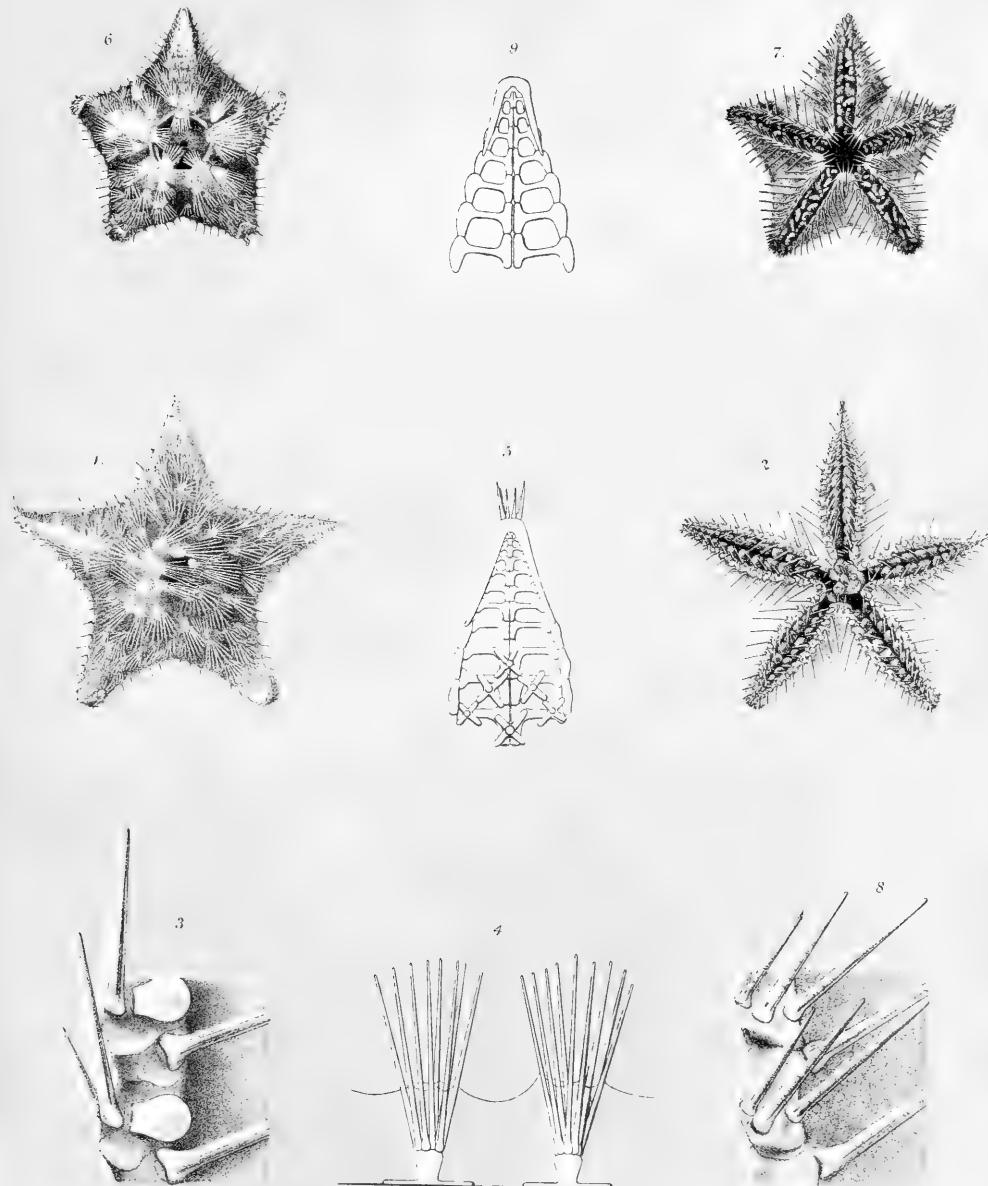


PLATE XCV.

PLATE XCV.

	Page
Figs. 1-5. <i>PYTHONASTER MURRAYI</i> , n. sp.	532

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

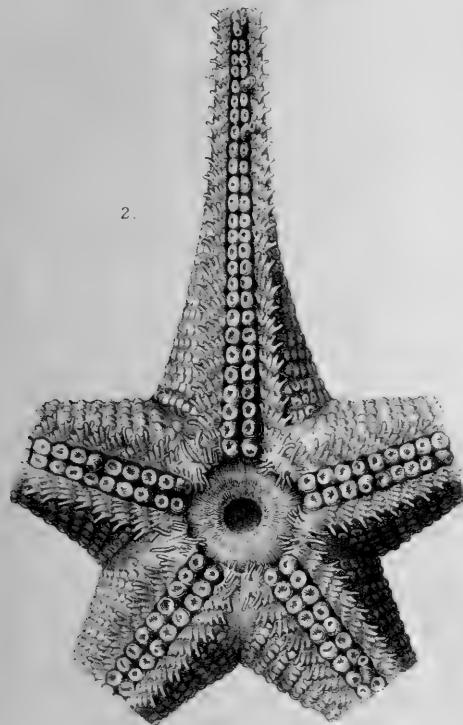
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. Adambulacral plates and adjacent portion of the actinal surface; magnified 9 diameters.

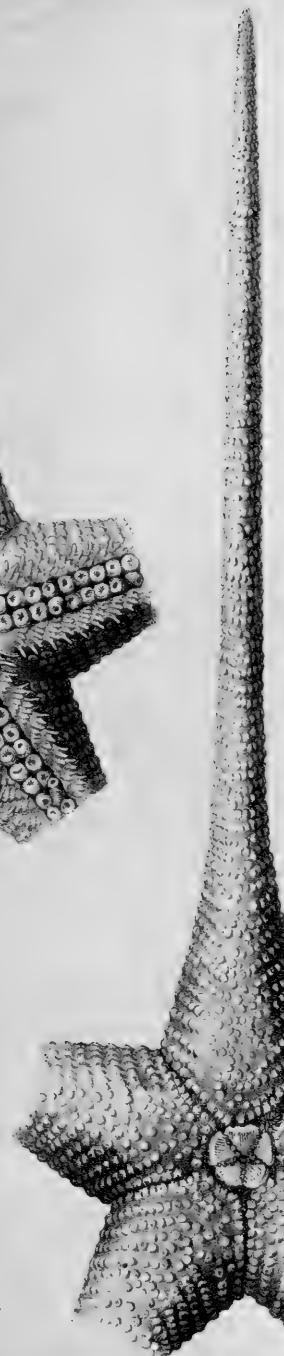
Fig. 4. A portion of the abactinal surface; magnified 9 diameters.

Fig. 5. Mouth-plates; magnified 5 diameters.

2.



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1.



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PLATE XCVI.

PLATE XCVI.

	Page
Figs. 1, 2. <i>CRIBRELLA COMPACTA</i> , n. sp.	543
Fig. 1. Abactinal aspect; magnified 4 diameters.	
Fig. 2. Actinal aspect; magnified 4 diameters.	
[For magnified details of this species see Pl. XCVIII. figs. 3, 4.]	
Figs. 3, 4. <i>CRIBRELLA OBESA</i> , n. sp.	544
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Profile view of a ray; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCVIII. figs. 5, 6.]	
Figs. 5, 6. <i>CRIBRELLA SUFFLATA</i> , n. sp.	549
Fig. 5. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 6. Profile view of a ray; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCVIII. figs. 1, 2.]	
Fig. 7. <i>CRIBRELLA PRÆSTANS</i> , n. sp.	545
Fig. 7. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCVIII. figs. 7, 8.]	

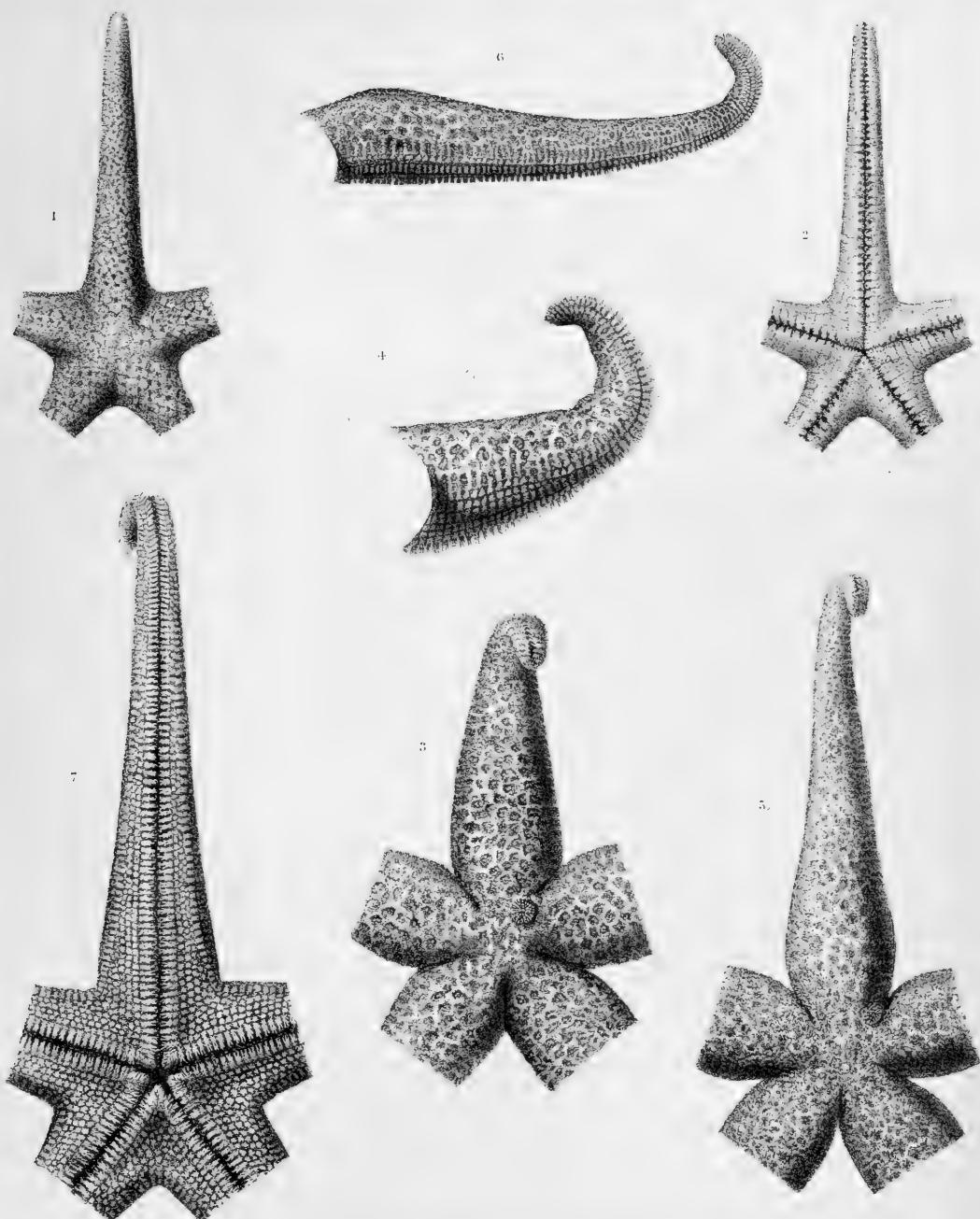
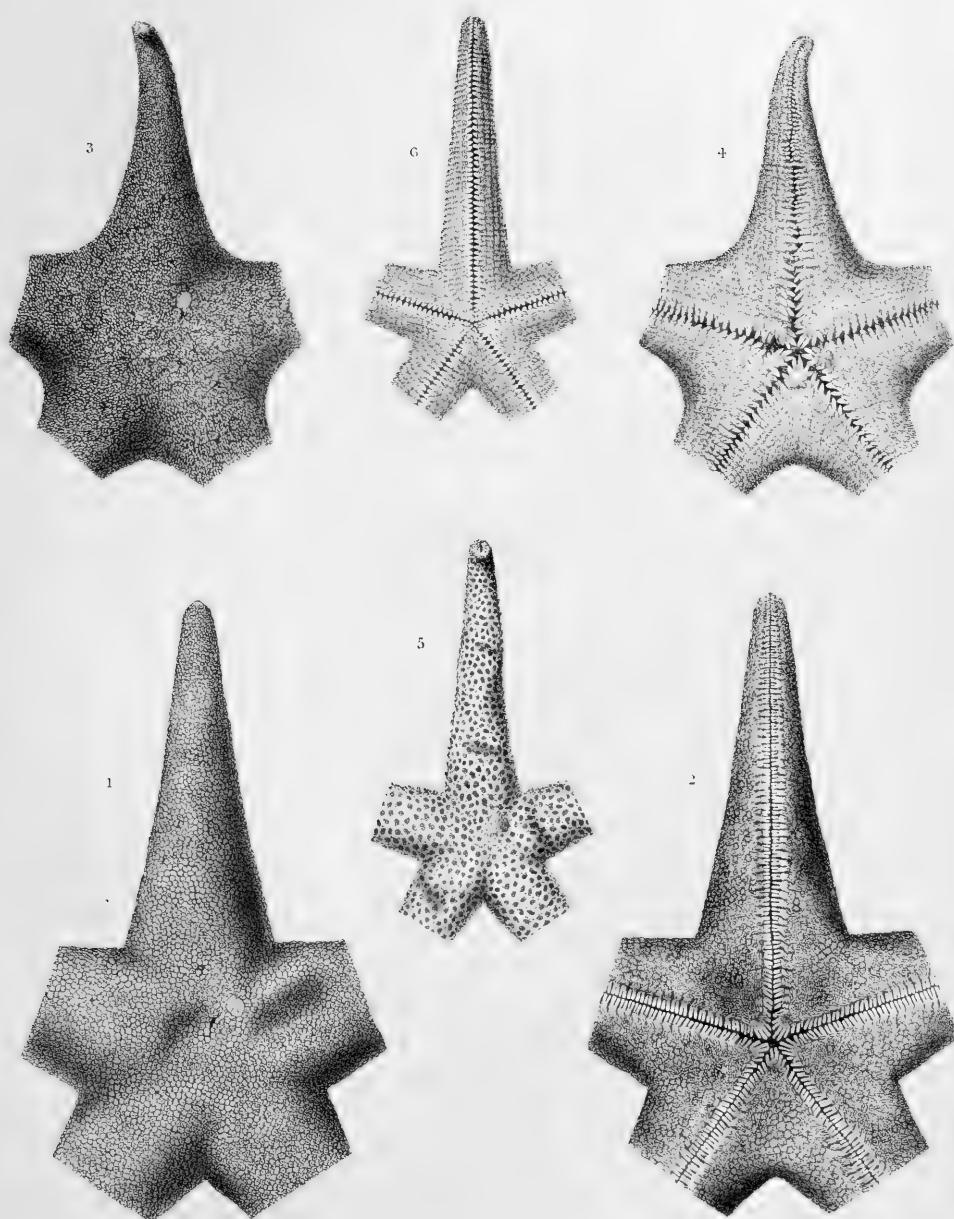


PLATE XCVII.

PLATE XCVII.

	Page
Figs. 1, 2. PERKNASTER DENSUS, n. sp.	552
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. XCVIII. figs. 11, 12.]	
Figs. 3, 4. PERKNASTER FUSCUS, n. sp.	551
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. LXII. fig. 1.]	
Figs. 5, 6. CRIBRELLA SIMPLEX, n. sp.	547
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. XCVIII. figs. 9, 10.]	



1-2. *PERKNASTER DENSUS*, n.sp.

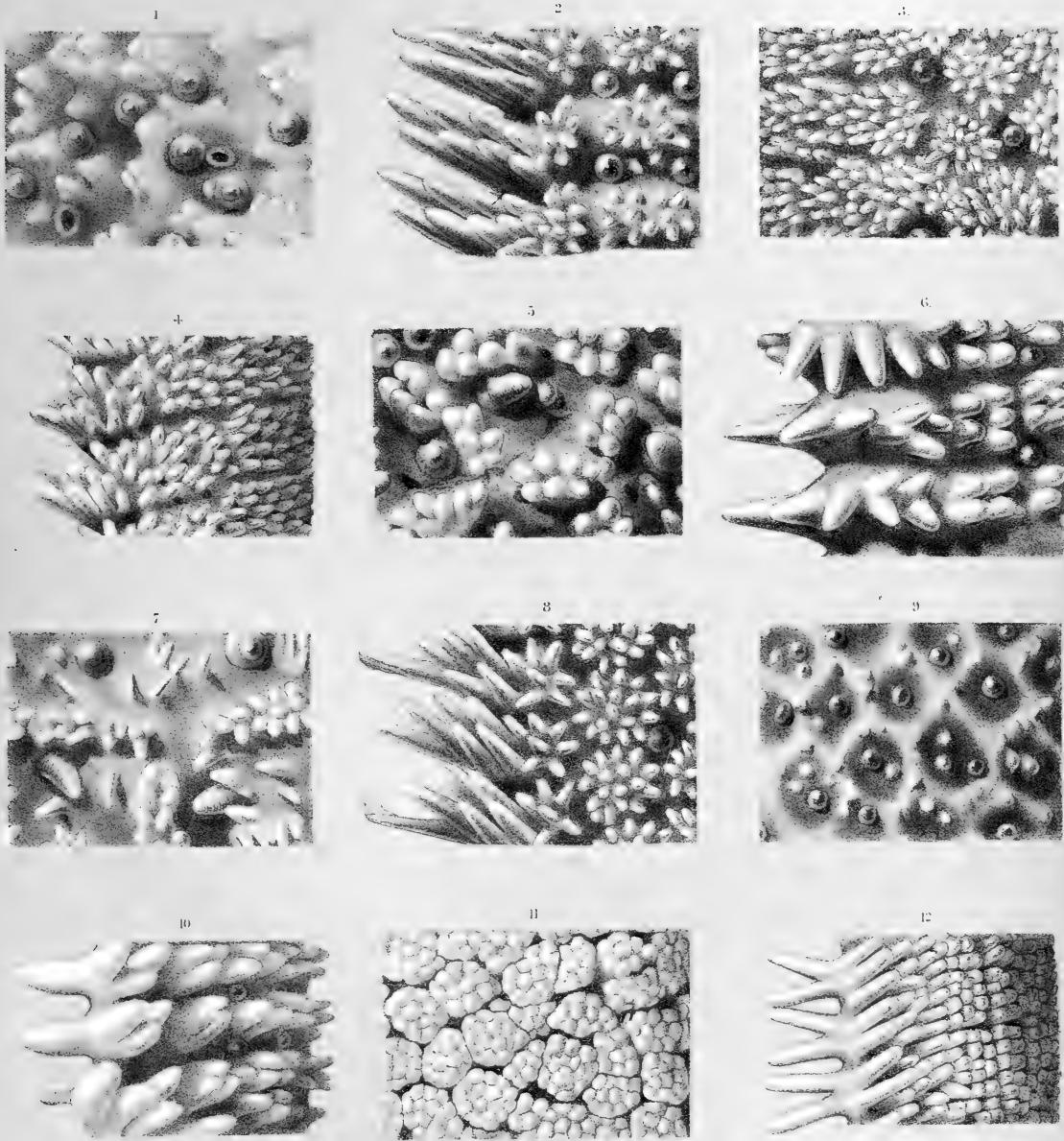
3-4. *PERKNASTER FUSCUS*, n.sp.

5-6. *CRIBRELLA SIMPLEX*, n.sp.

PLATE XCVIII.

PLATE XCVIII.

	Page
Figs. 1, 2. <i>CRIBRELLA SUFFLATA</i> , n. sp.	549
Fig. 1. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 2. Adambulacral plates and adjacent portion of the actinal surface; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XCVI. figs. 5, 6.]	
Figs. 3, 4. <i>CRIBRELLA COMPACTA</i> , n. sp.	543
Fig. 3. A portion of the abactinal surface; magnified 35 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 35 diameters.	
[For macroscopic figures of this species see Pl. XCVI. figs. 1, 2.]	
Figs. 5, 6. <i>CRIBRELLA OBESA</i> , n. sp.	544
Fig. 5. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. XCVI. figs. 3, 4.]	
Figs. 7, 8. <i>CRIBRELLA PRÆSTANS</i> , n. sp.	545
Fig. 7. A portion of the abactinal surface; magnified 16 diameters.	
Fig. 8. Adambulacral plates and adjacent portion of the actinal surface; magnified 18 diameters.	
[For a macroscopic figure of this species see Pl. XCVI. fig. 7.]	
Figs. 9, 10. <i>CRIBRELLA SIMPLEX</i> , n. sp.	547
Fig. 9. A portion of the abactinal surface; magnified 16 diameters.	
Fig. 10. Adambulacral plates and adjacent portion of the actinal surface; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. XCVII. figs. 5, 6.]	
Figs. 11, 12. <i>PERKNASTER DENSUS</i> , n. sp.	552
Fig. 11. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 12. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. XCVII. figs. 1, 2.]	



1-2. *CRIBRELLA SUFFLATA*, n. sp.
 5-6. *CRIBRELLA OBESA*, n. sp.
 9-10. *CRIBRELLA SIMPLEX*, n. sp.

3-4. *CRIBRELLA COMPACTA*, n. sp.
 7-8. *CRIBRELLA PRÆSTANS*, n. sp.
 11-12. *PERKMASTER DENSUS*, n. sp.

PLATE XCIX.

PLATE XCIX.

	Page
Figs. 1, 2. <i>ASTERIAS VESICULOSA</i> , n. sp.	568
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. CIII. figs. 9, 10.]	
Figs. 3, 4. <i>ASTERIAS (HYDRASTERIAS) OPHIDION</i> , n. sp.	581
Fig. 3. Abactinal aspect; magnified 2 diameters.	
Fig. 4. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. CIII. figs. 3, 4.]	

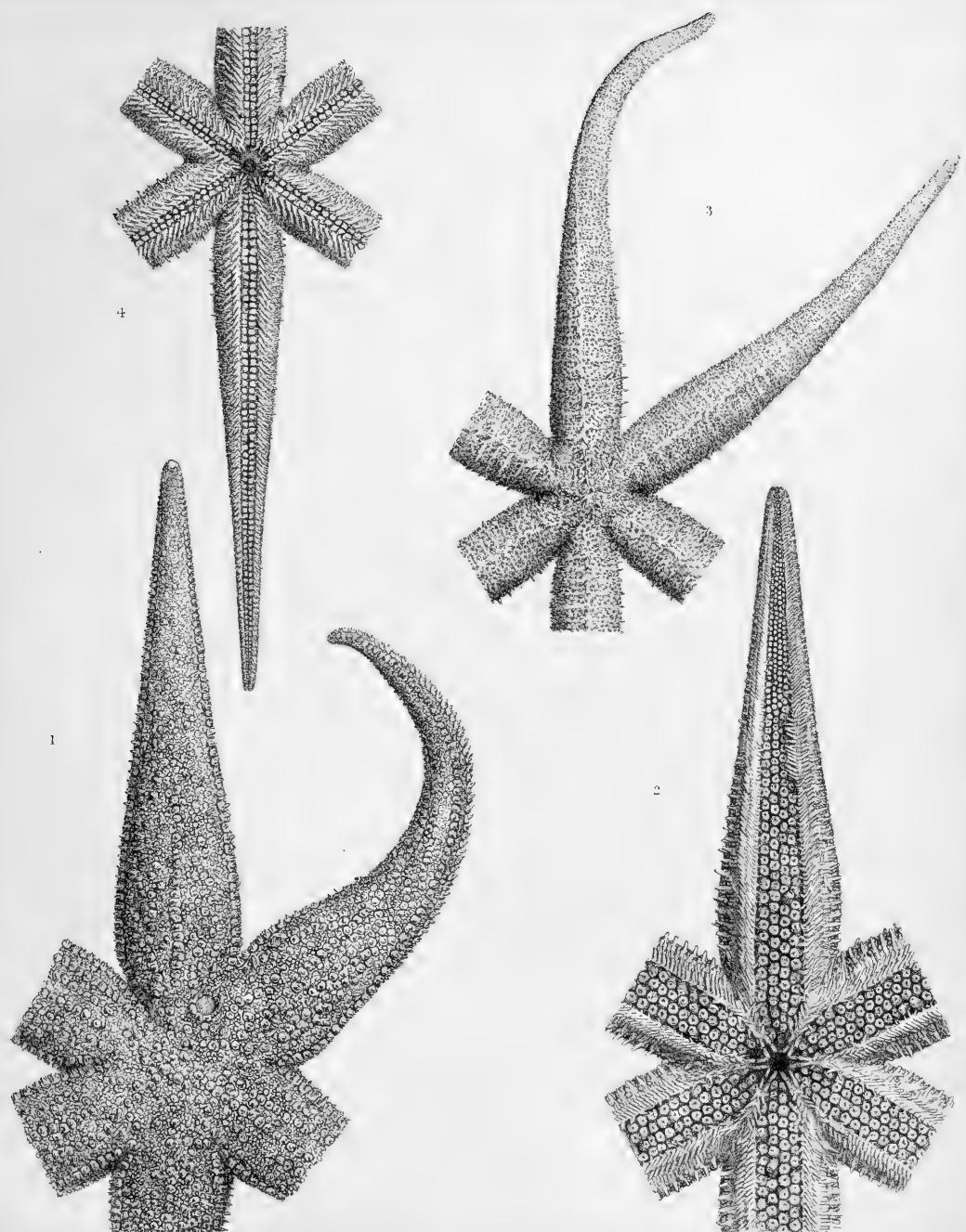


PLATE C.

PLATE C.

Page
434

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. Profile view of a ray; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. CIII. figs. 5, 6.]

Figs. 4-6. ASTERIAS (SMILASTERIAS) SCALPRIFERA, n. sp. 578

Fig. 4. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 5. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 6. Profile view of a ray; magnified $1\frac{1}{2}$ diameters.

[For magnified details of this species see Pl. CIII. figs. 1, 2.]

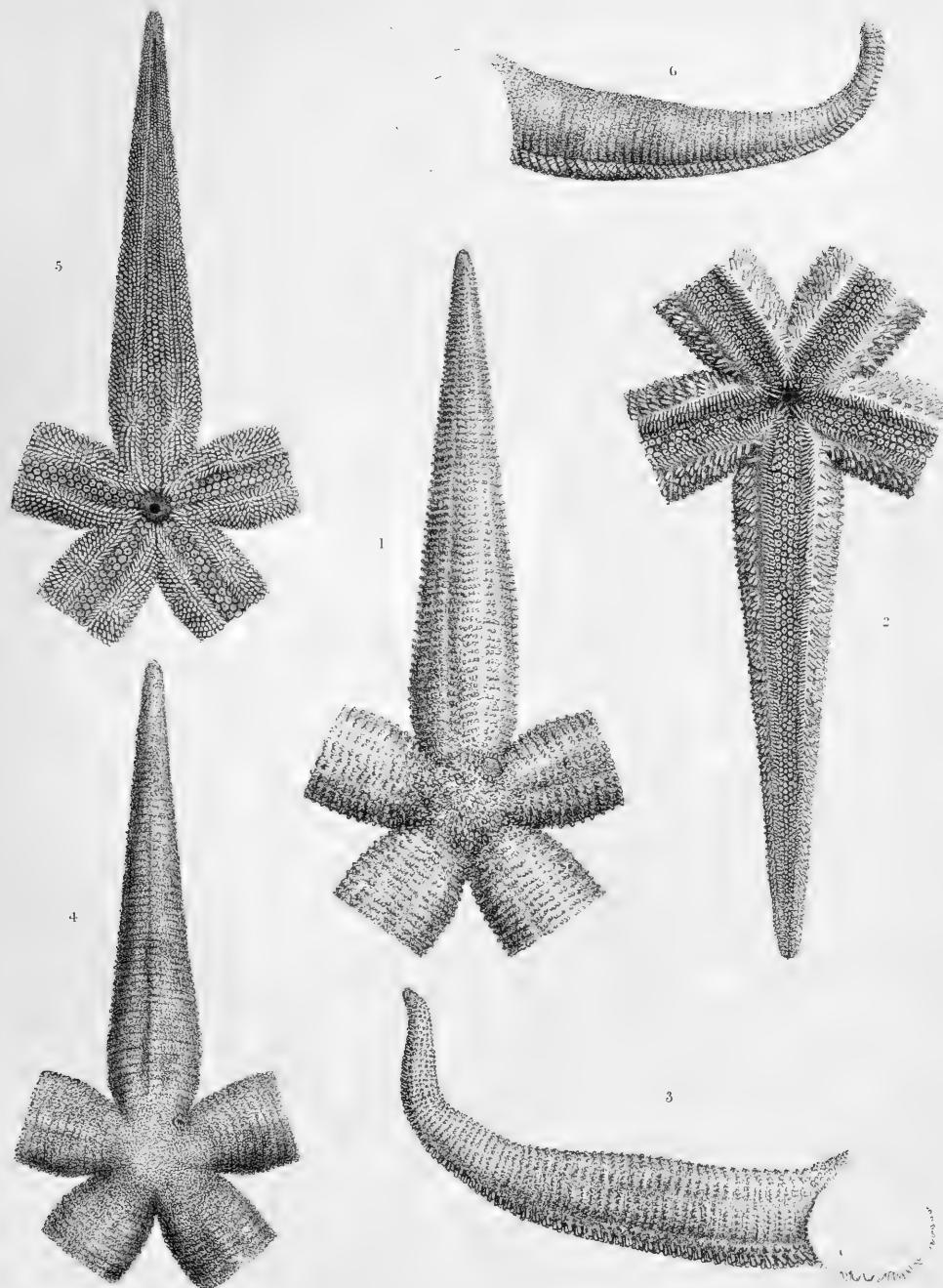


PLATE CI.

PLATE CI.

	Page
Figs. 1, 2. <i>STICHASTER FELIPES</i> , n. sp.	433
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. CIII. figs. 7, 8.]	
Figs. 3, 4. <i>CALVASTERIAS STOLIDOTA</i> , n. sp.	590
Fig. 3. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 4. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
[For magnified details of this species see Pl. CIII. figs. 11, 12.]	
Figs. 5, 6. <i>ASTERIAS (SMILASTERIAS) TRIREMIS</i> , n. sp.	579
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
[For magnified details of this species see Pl. CII. figs. 5, 6.]	

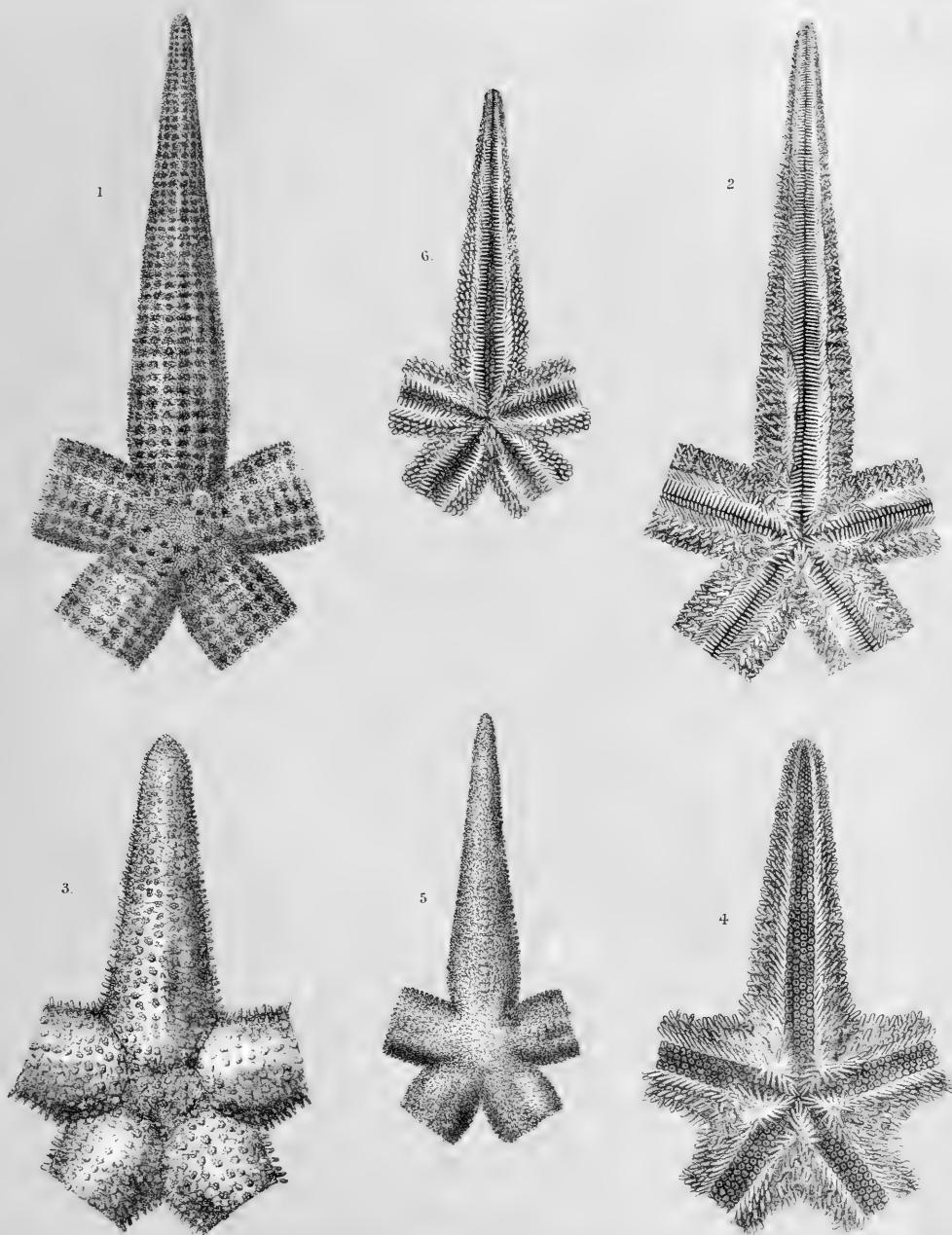
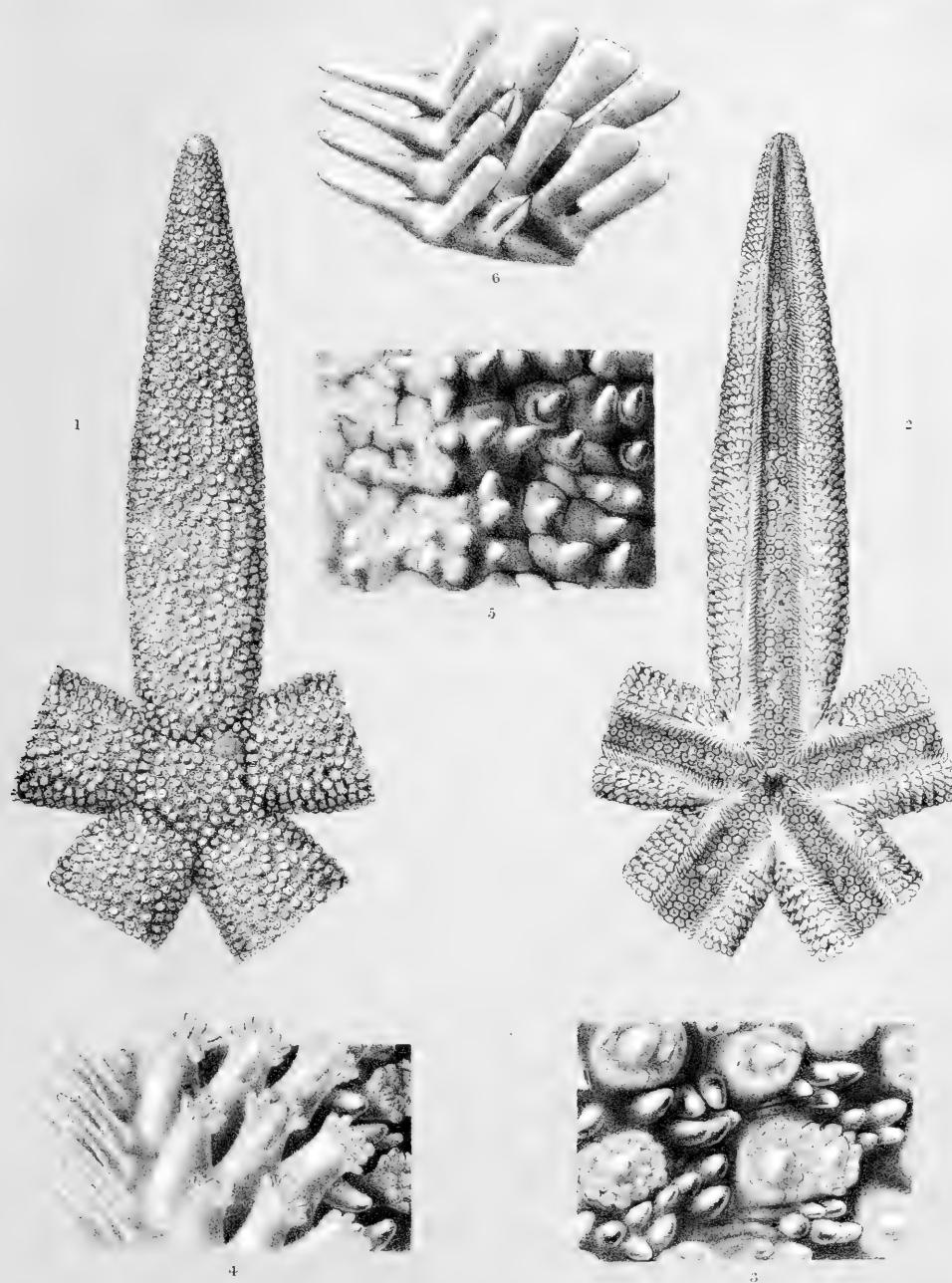


PLATE CII.

PLATE CII.

	Page
Figs. 1-4. <i>ASTERIAS TORQUATA</i> , n. sp.	570
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 3. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
Figs. 5, 6. <i>ASTERIAS (SMILASTERIAS) TRIREMIS</i> , n. sp.	579
Fig. 5. A portion of the abactinal surface; magnified 20 diameters.	
Fig. 6. Adambulacral plates and adjacent portion of the actinal surface; magnified 20 diameters.	
[For macroscopic figures of this species see Pl. CI. figs. 5, 6.]	



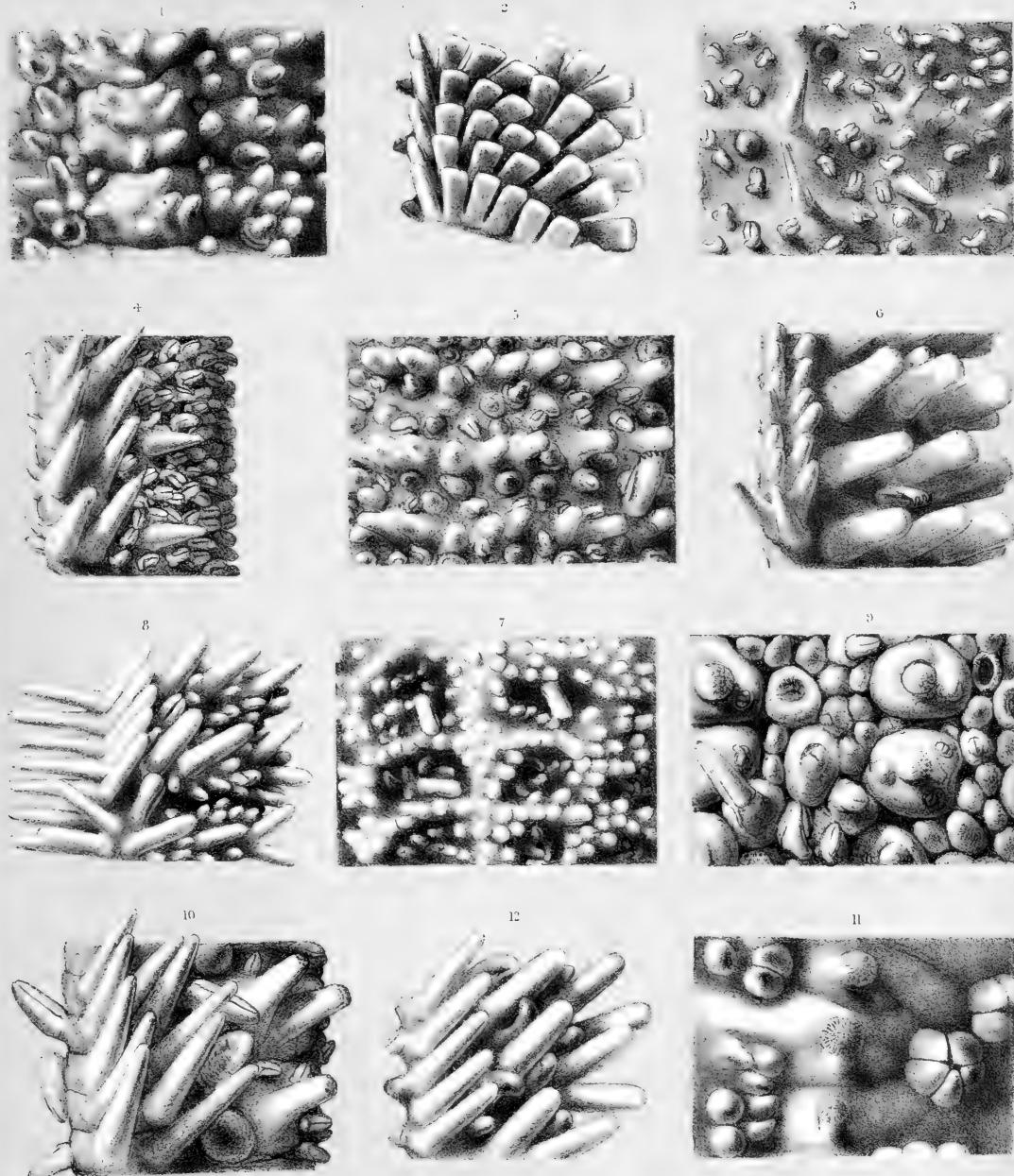
1-4. *ASTERIAS TORQUATA* n. sp.

5-6. *ASTERIAS (SMILASTERIAS) TRIREMIS* n. sp.

PLATE CIII.

PLATE CIII.

	Page
Figs. 1, 2. <i>ASTERIAS (SMILASTERIAS) SCALPRIFERA</i> , n. sp.	578
Fig. 1. A portion of the abactinal surface; magnified 15 diameters.	
Fig. 2. Adamambulacral plates and adjacent portion of the actinal surface; magnified 15 diameters.	
[For macroscopic figures of this species see Pl. C. figs. 4-6.]	
Figs. 3, 4. <i>ASTERIAS (HYDRASTERIAS) OPHIDION</i> , n. sp.	581
Fig. 3. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 4. Adamambulacral plates and adjacent portion of the actinal surface; magnified 14 diameters.	
[For macroscopic figures of this species see Pl. XCIX. figs. 3, 4.]	
Figs. 5, 6. <i>STICHASTER POLYGRAMMUS</i> , n. sp.	434
Fig. 5. A portion of the abactinal surface; magnified 12 diameters.	
Fig. 6. Adamambulacral plates and adjacent portion of the actinal surface; magnified 10 diameters.	
[For macroscopic figures of this species see Pl. C. figs. 1-3.]	
Figs. 7, 8. <i>STICHASTER FELIPES</i> , n. sp.	433
Fig. 7. A portion of the abactinal surface; magnified 10 diameters.	
Fig. 8. Adamambulacral plates and adjacent portion of the actinal surface; magnified 9 diameters.	
[For macroscopic figures of this species see Pl. CI. figs. 1, 2.]	
Figs. 9, 10. <i>ASTERIAS VESICULOSA</i> , n. sp.	568
Fig. 9. A portion of the abactinal surface; magnified 13 diameters.	
Fig. 10. Adamambulacral plates and adjacent portion of the actinal surface; magnified 13 diameters.	
[For macroscopic figures of this species see Pl. XCIX. figs. 1, 2.]	
Figs. 11, 12. <i>CALVASTERIAS STOLIDOTA</i> , n. sp.	590
Fig. 11. A portion of the abactinal surface; magnified 14 diameters.	
Fig. 12. Adamambulacral plates and adjacent portion of the actinal surface; magnified 14 diameters.	
[For macroscopic figures of this species see Pl. CI. figs. 3, 4.]	



1-2. *ASTERIAS (SMILASTERIAS) SCALPRIFERA*, n. sp.

5-6. *STICHASTER POLYGRAMMUS*, n. sp.

9-10. *ASTERIAS VESICULOSA*, n. sp.

3-4. *ASTERIAS (HYDRASTERIAS) OPHIDION*, n. sp.

7-8. *STICHASTER FELIPES*, n. sp.

11-12. *CALVASTERIAS STOLIDOTA*, n. sp.

PLATE CIV.

PLATE CIV.

Page
573

Figs. 1-4. *ASTERIAS VERSICOLOR*, n. sp.

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. A portion of the abactinal surface; magnified 7 diameters.

Fig. 4. Adamambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

Figs. 5-8. *TARSASTER STOICHODES*, n. sp.

440

Fig. 5. Abactinal aspect; magnified 2 diameters.

Fig. 6. Actinal aspect; magnified 2 diameters.

Fig. 7. A portion of the abactinal surface; magnified 10 diameters.

Fig. 8. Adamambulacral plates and adjacent portion of the actinal surface; magnified 13 diameters.

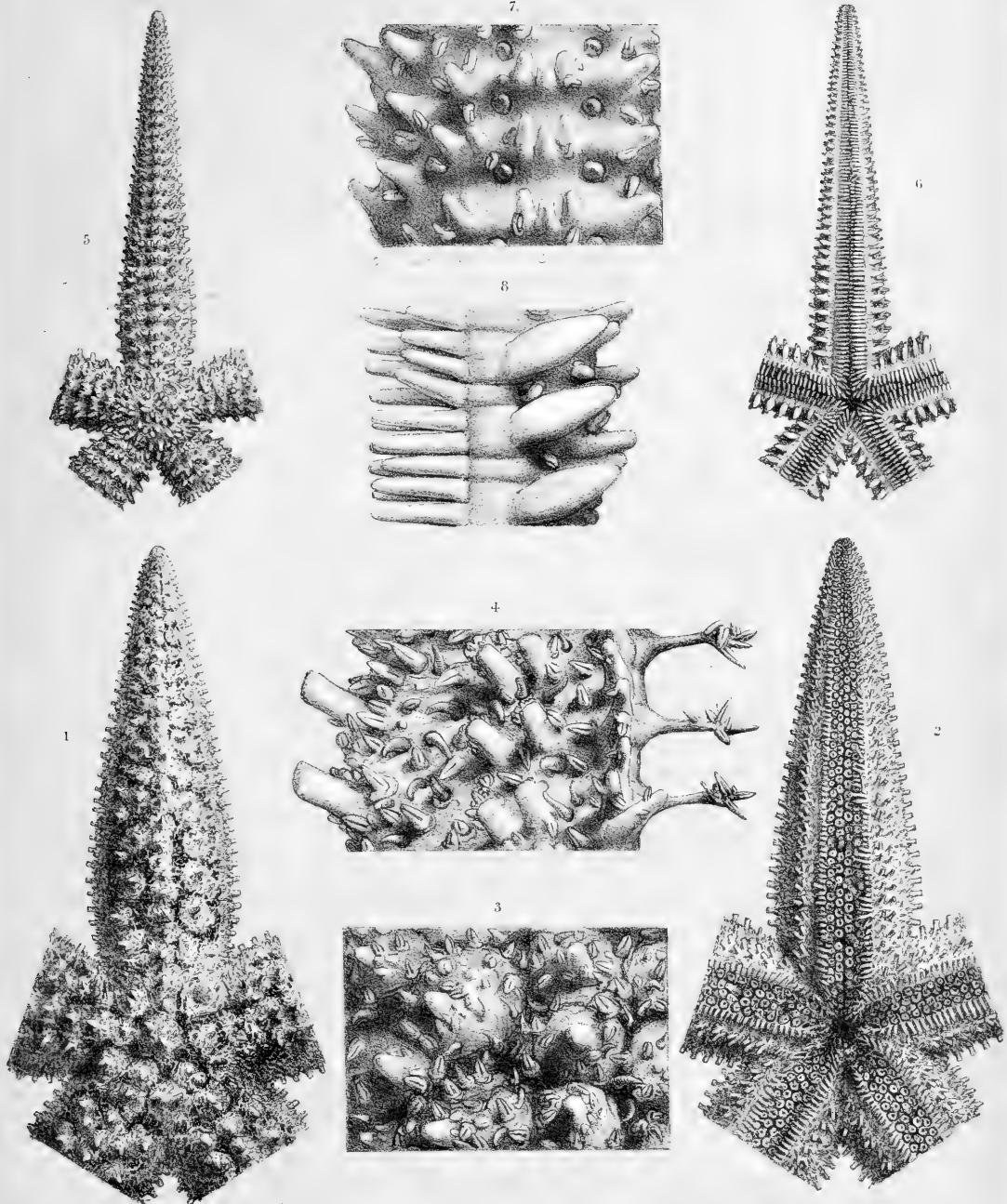


PLATE CV.

PLATE CV.

	Page
Figs. 1-4. <i>ASTERIAS GLOMERATA</i> , n. sp.	571

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. A portion of the abactinal surface; magnified 8 diameters.

Fig. 4. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

Figs. 5-7. <i>PEDICELLASTER HYPERNOTIUS</i> , n. sp.	558
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Fig. 5. Abactinal aspect; magnified 3 diameters.

Fig. 6. A portion of the abactinal surface; magnified 20 diameters.

Fig. 7. Adambulacral plates and adjacent portion of the actinal surface; magnified 18 diameters.

Figs. 8-10. <i>ASTERIAS (COSMASTERIAS) TOMIDATA</i> , n. sp.	576
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Fig. 8. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 9. Adambulacral plates and adjacent portion of the actinal surface; magnified 8 diameters.

Fig. 10. A portion of the abactinal surface; magnified 8 diameters.

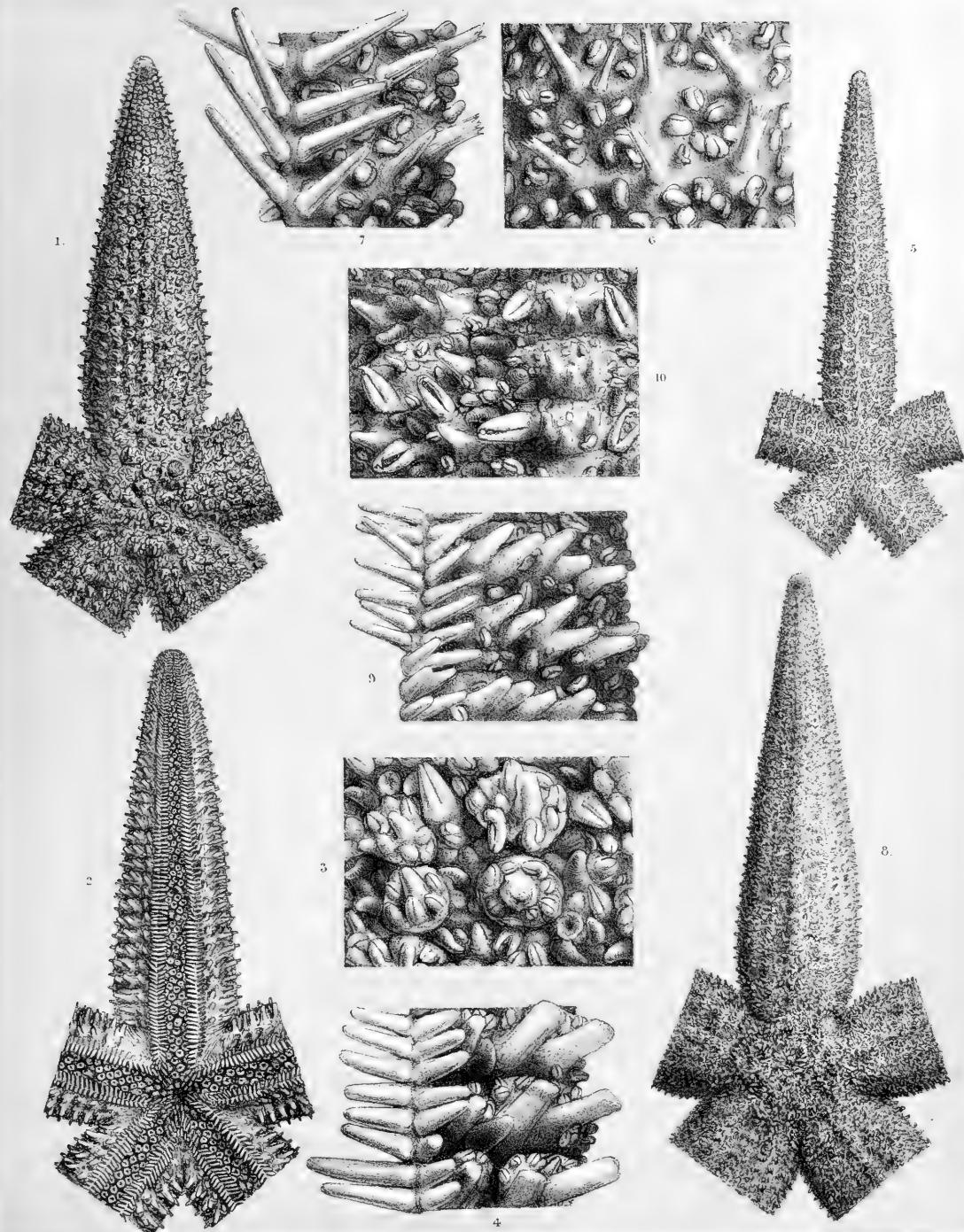
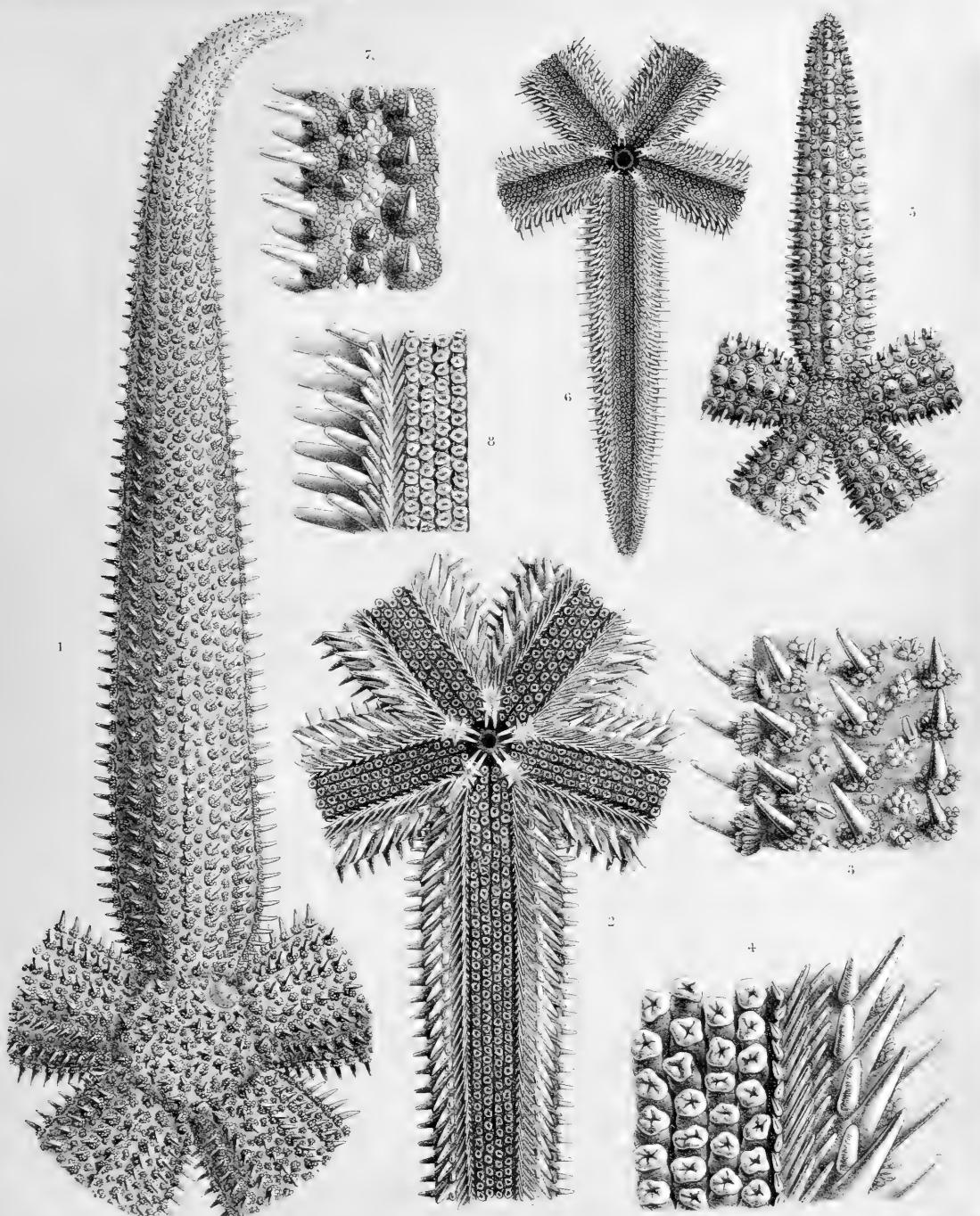


PLATE CVI.

(ZOOLOGICAL EXP.—PART LI.—1888).—3 H

PLATE CVI.

	Page
Figs. 1-4. <i>ASTERIAS (STOLASTERIAS) STICHANTHA</i> , n. sp.	586
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 3. A portion of the abactinal surface; magnified 4 diameters.	
Fig. 4. Adamambulacral plates and adjacent portion of the actinal surface; magnified 4 diameters.	
Figs. 5-8. <i>ASTERIAS (STOLASTERIAS) EUSTYLA</i> , n. sp.	587
Fig. 5. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 6. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 7. A portion of the abactinal surface; magnified 4 diameters.	
Fig. 8. Adamambulacral plates and adjacent portion of the actinal surface; magnified 4 diameters.	



1-4. *ASTERIAS (STOLASTERIAS) STICHANTHA*, n. sp.

5-8. *ASTERIAS (STOLASTERIAS) EUSTYLA*, n. sp.

PLATE CVII.

PLATE CVII.

Page
584

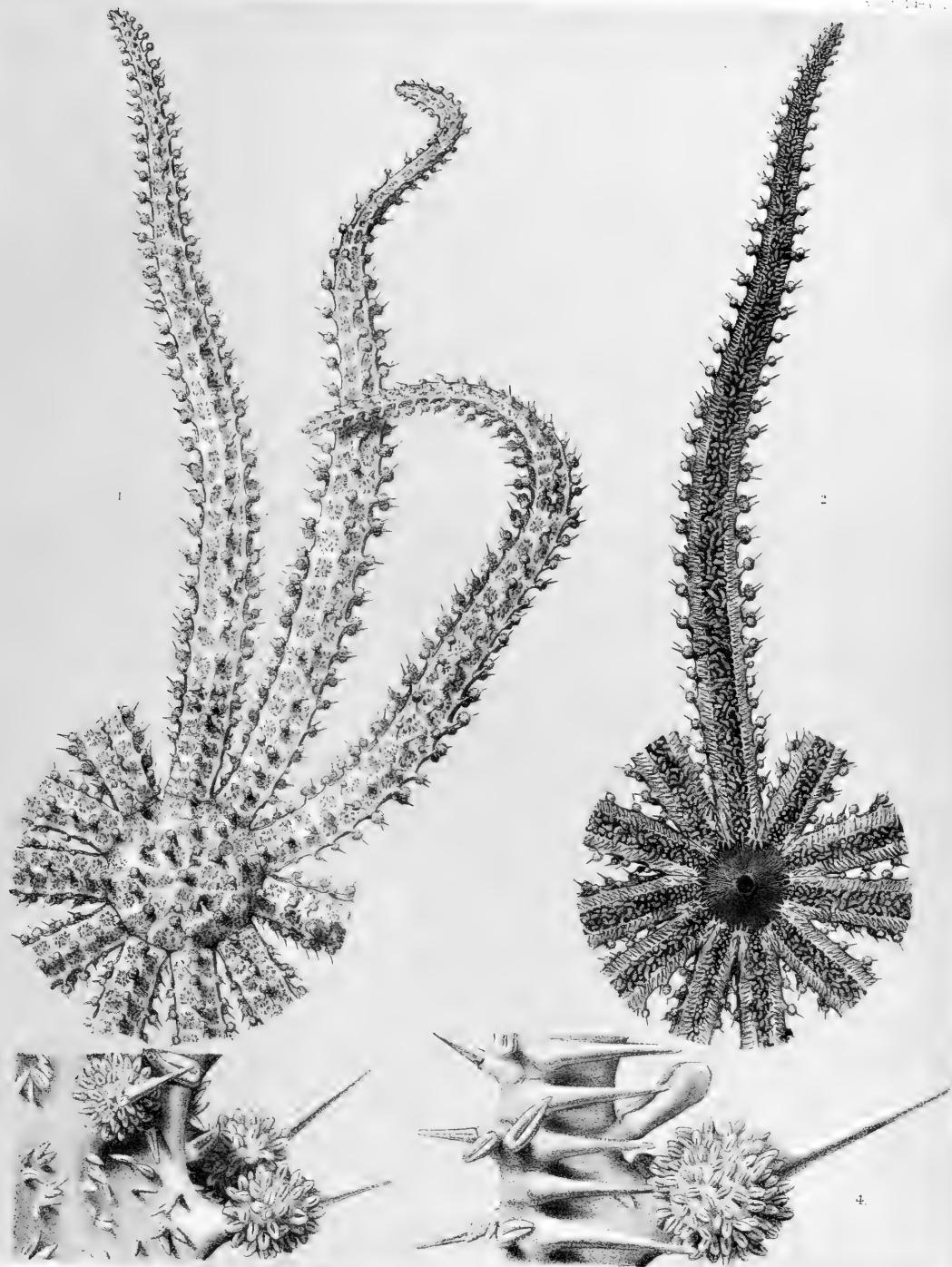
Figs. 1-4. *ASTERIAS (STOLASTERIAS) VOLSELLATA*, n. sp.

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. A portion of the abactinal surface; magnified 9 diameters.

Fig. 4. Adamambulacral plates and adjacent portion of the actinal surface; magnified 15 diameters.



ASTERIAS (STOLASTERIAS) VOLSELLATA, n. sp.

Minster Bros. 1892

PLATE CVIII.

PLATE CVIII.

Page
595

Fig. 1. LABIDIASTER ANNULATUS, n. sp.

Fig. 1. Abactinal aspect; natural size.

Fig. 2. LABIDIASTER RADIOSUS (Lovén), Lütken, 595

Fig. 2. Abactinal aspect; natural size.

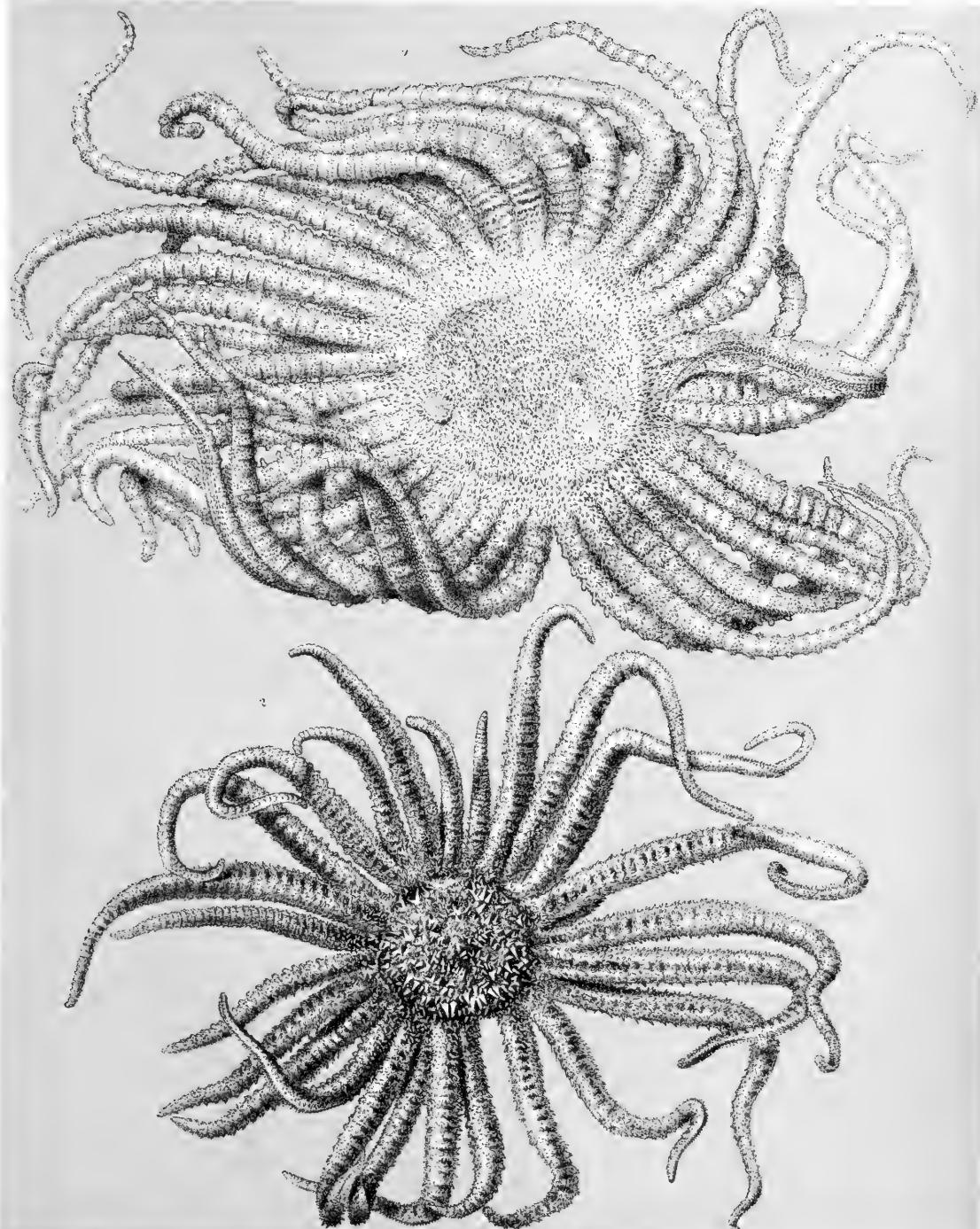


PLATE CIX.

PLATE CIX.

Page
598

Figs. 1-5. *ODINIA PANDINA*, n. sp.

Fig. 1. Abactinal aspect of a ray; natural size.
Fig. 2. Abactinal aspect of the disk; natural size.
Fig. 3. A portion of a ray, lateral view; magnified 2 diameters.
Fig. 4. Part of the same more highly magnified, to show the papulae; magnified 4 diameters.
Fig. 5. Adambulacral plates; magnified 4 diameters.

Figs. 6-8. *BRISINGA CRICOPHORA*, n. sp.

606

Fig. 6. Abactinal aspect of a ray and the disk; magnified $1\frac{1}{2}$ diameters.
Fig. 7. Adambulacral plates; magnified 4 diameters.
Fig. 8. An actinal spine from an adambulacral plate near the base of a ray; magnified.

Figs. 9-11. *BRISINGA VERTICILLATA*, n. sp.

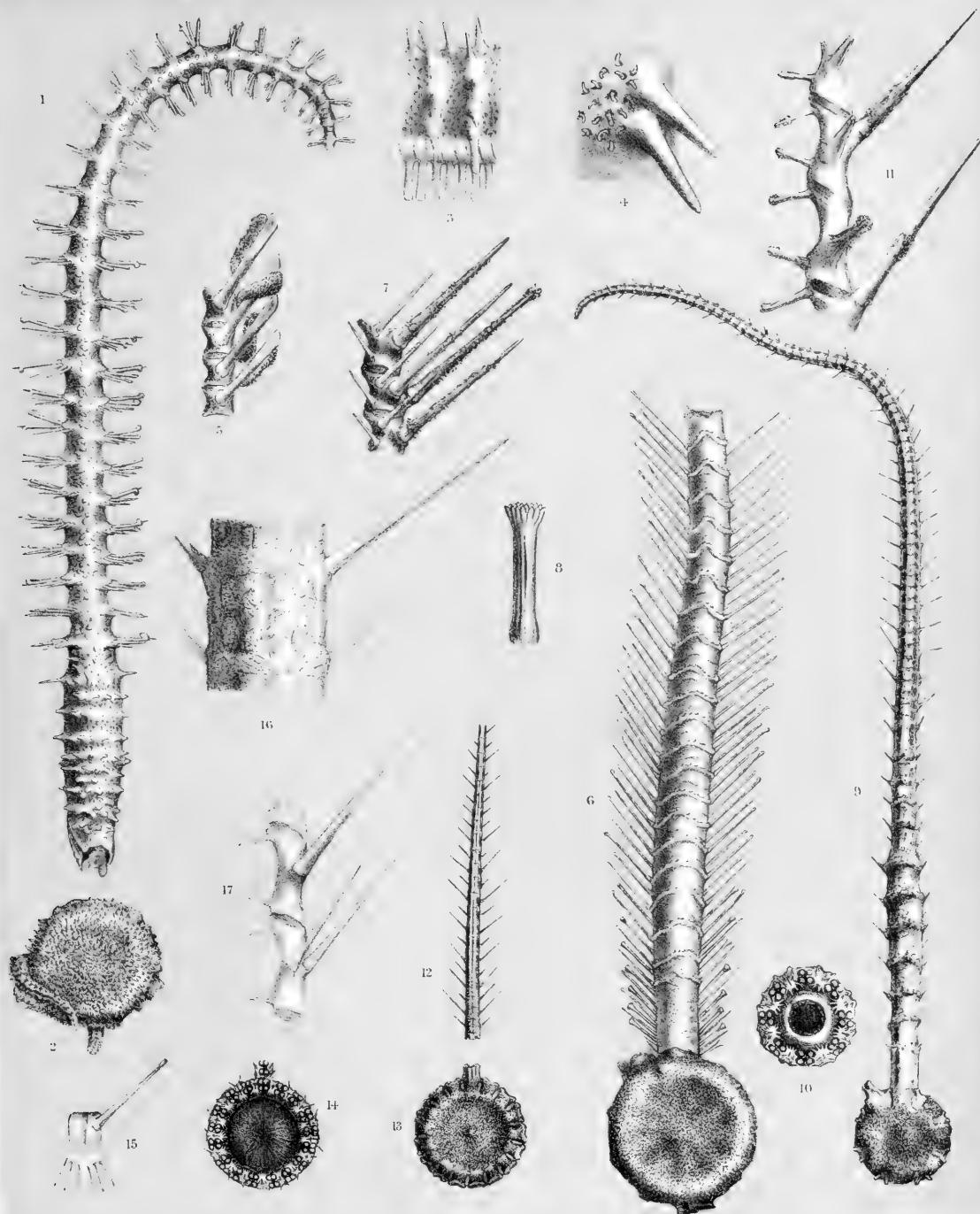
604

Fig. 9. Abactinal aspect of a ray and the disk; magnified $1\frac{1}{2}$ diameters.
Fig. 10. Actinal aspect of the disk; magnified $1\frac{1}{2}$ diameters.
Fig. 11. Adambulacral plates; magnified 12 diameters.

Figs. 12-17. *FREYELLA POLYCNEMA*, n. sp.

621

Fig. 12. Abactinal aspect of a ray; magnified 2 diameters.
Fig. 13. Abactinal aspect of the disk; magnified 2 diameters.
Fig. 14. Actinal aspect of the disk; magnified 2 diameters.
Fig. 15. Mouth-plates; magnified 6 diameters.
Fig. 16. A portion of the abactinal surface of a ray; magnified 12 diameters.
Fig. 17. Adambulacral plates; magnified 12 diameters.



1-5. *ODINIA PANDINA*, n. sp.
9-11. *BRISINGA VERTICILLATA*, n. sp.

6-8. *BRISINGA CRICOPHORA*, n. sp.
12-17. *FREYELLA POLYCNEMA*, n. sp.

PLATE CX.

(ZOOL. CHALL. EXP.—PART LI.—1888).—3 K

PLATE CX.

	Page
Figs. 1-3. <i>BRISINGA ARMILLATA</i> , n. sp.	608

Fig. 1. Abactinal aspect of a ray and the disk ; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect ; magnified $1\frac{1}{2}$ diameters.

Fig. 3. Adambulacral plates ; magnified 5 diameters.

Figs. 4-7. <i>BRISINGA DISCINCTA</i> , n. sp.	613
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Fig. 4. Abactinal aspect of a ray ; magnified $1\frac{1}{2}$ diameters.

Fig. 5. Actinal aspect of a portion of a ray ; magnified $1\frac{1}{2}$ diameters.

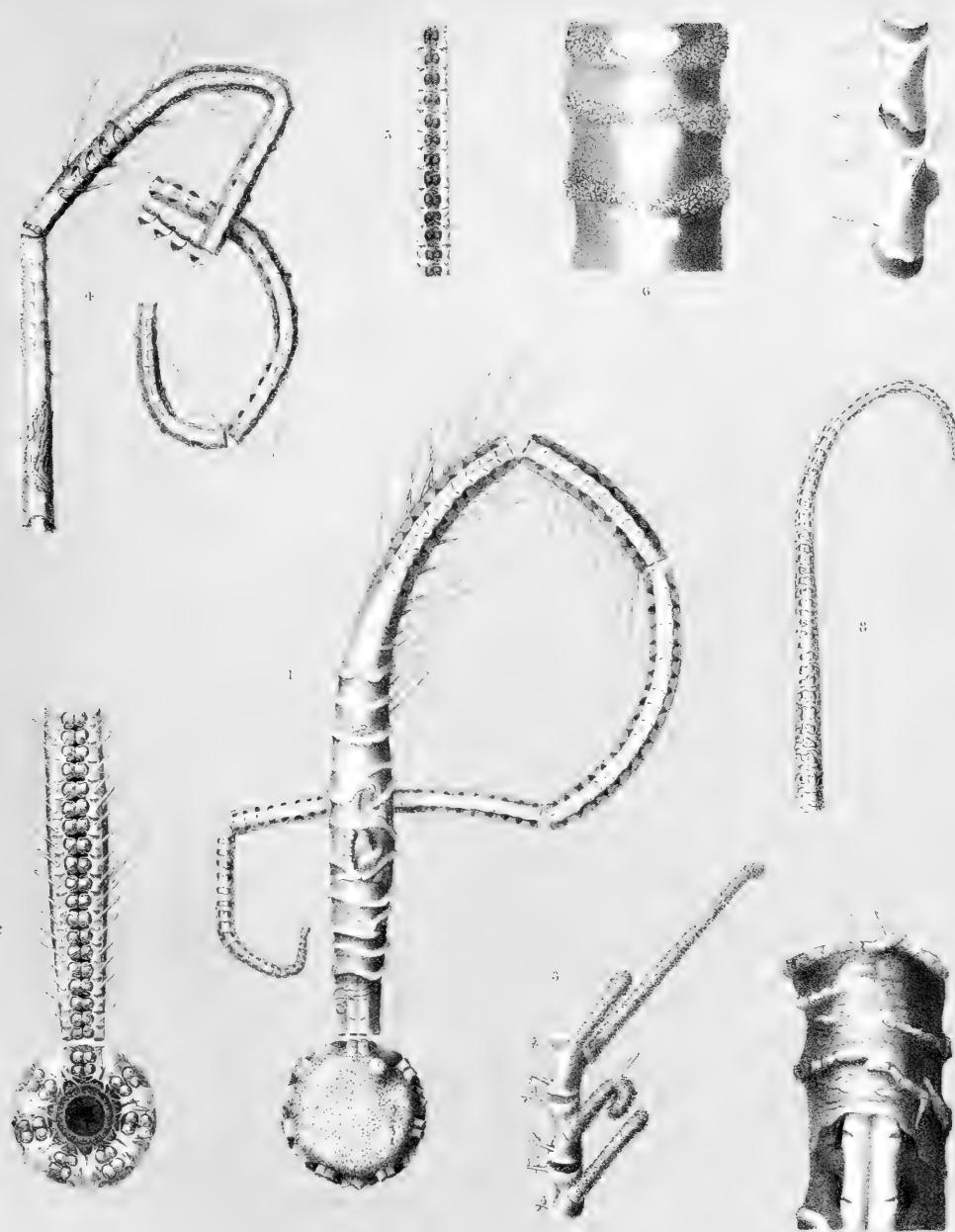
Fig. 6. Abactinal aspect of a portion of a ray ; magnified 8 diameters.

Fig. 7. Adambulacral plates ; magnified 8 diameters.

Figs. 8, 9. <i>BRISINGA MEMBRANACEA</i> , n. sp.	611
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Fig. 8. Abactinal aspect of a portion of a ray ; magnified $1\frac{1}{2}$ diameters.

Fig. 9. Abactinal aspect of a portion of a ray ; magnified 8 diameters.



1-3. *BRISINGA ARMILLATA*, n. sp. 4-7. *BRISINGA DISINCTA*, n. sp.
8-9. *BRISINGA MEMBRANACEA*, n. sp.

PLATE CXL.

PLATE CXI.

	Page
Figs. 1-4. <i>FREYELLA PENNATA</i> , n. sp.	618
Fig. 1. Abactinal aspect; natural size.	
Fig. 2. Actinal aspect; natural size.	
Fig. 3. A portion of the abactinal surface of an ovarian region; magnified 10 diameters.	
Fig. 4. Adamambulacral plates; magnified 5 diameters.	
Figs. 5-8. <i>FREYELLA BENTHOPHILA</i> , n. sp.	641
Fig. 5. Abactinal aspect; magnified 2 diameters.	
Fig. 6. Actinal aspect; magnified 2 diameters.	
Fig. 7. A portion of the abactinal surface of an ovarian region; magnified 20 diameters.	
Fig. 8. Adamambulacral plates; magnified 6 diameters.	

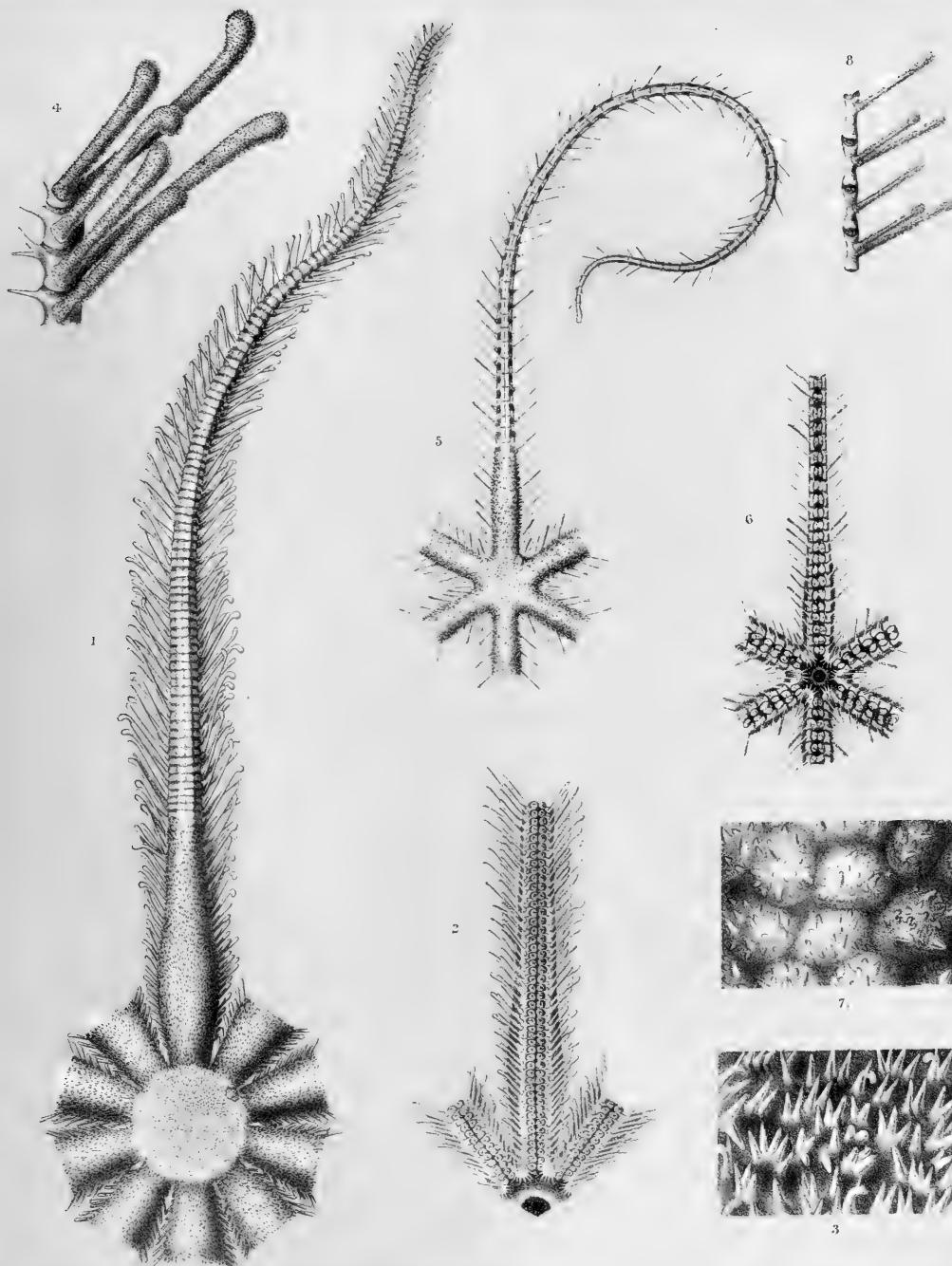


PLATE CXII.

PLATE CXII.

	Page
Figs. 1-5. <i>FREYELLA ECHINATA</i> , n. sp.	623

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. A portion of the abactinal surface of the disk; magnified 15 diameters.

Fig. 4. A portion of the abactinal surface of an ovarian region; magnified 5 diameters.

Fig. 5. Adambulacral plates; magnified 4 diameters.

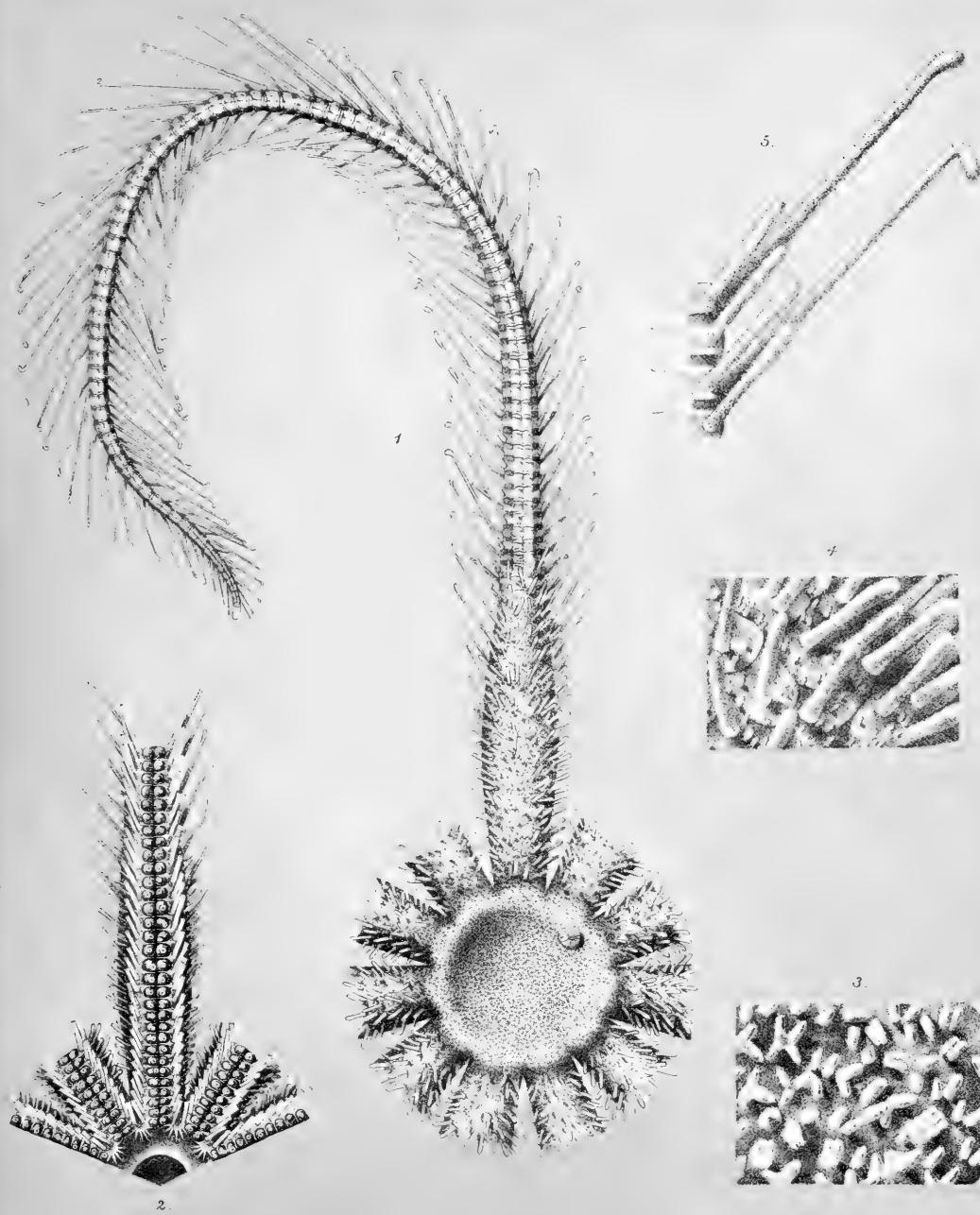


PLATE CXIII.

PLATE CXIII.

	Page
Figs. 1-4. <i>FREYELLA FRAGILISSIMA</i> , n. sp.	626

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

Fig. 3. A portion of the abactinal surface of an ovarial region; magnified 10 diameters.

Fig. 4. Adambulacral plates; magnified 5 diameters.

Figs. 5-7. <i>FREYELLA ATTENUATA</i> , n. sp.	645
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Fig. 5. Abactinal aspect of a ray; magnified 2 diameters.

Fig. 6. A portion of the abactinal surface of an ovarial region; magnified 16 diameters.

Fig. 7. Adambulacral plates; magnified 4 diameters.



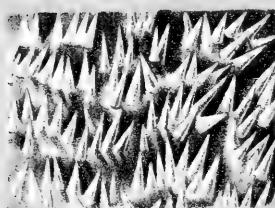
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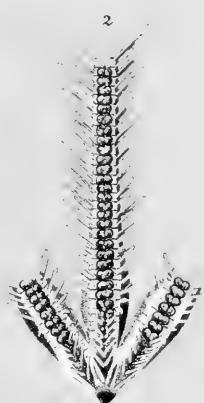
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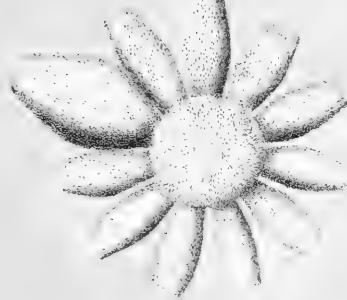
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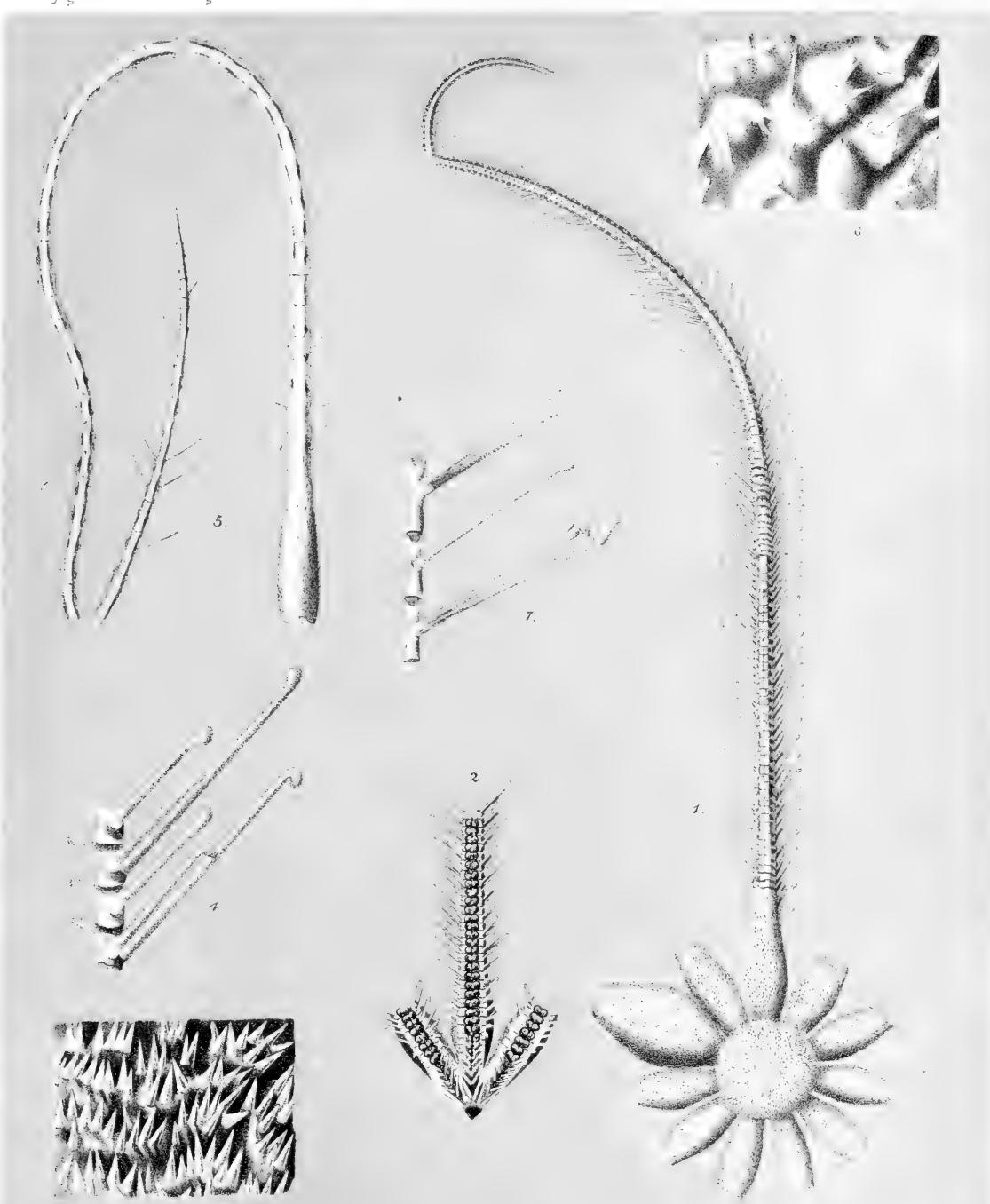


PLATE CXIV.

PLATE CXIV.

	Page
Figs. 1-4. <i>FREYELLA BRACTEATA</i> , n. sp.	629

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Actinal aspect; natural size.

Fig. 3. A portion of the abactinal surface of an ovarian region; magnified 10 diameters.

Fig. 4. Adambulacral plates; magnified 5 diameters.

Figs. 5-8. <i>FREYELLA HEROINA</i> , n. sp.	643
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Fig. 5. Abactinal aspect; natural size.

Fig. 6. Actinal aspect; natural size.

Fig. 7. A portion of the abactinal surface of an ovarian region; magnified 12 diameters.

Fig. 8. Adambulacral plates; magnified 4 diameters.

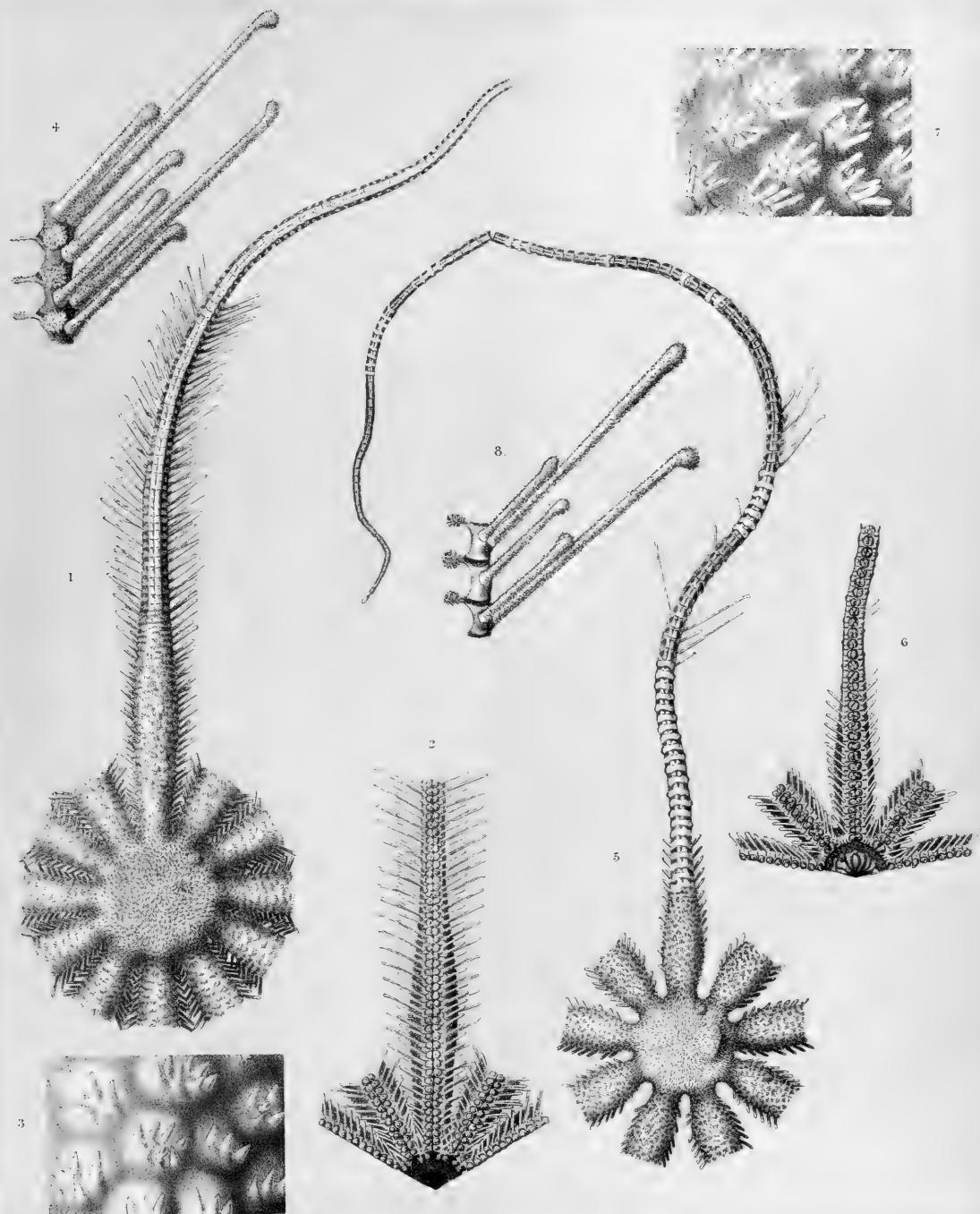


PLATE CXV.

PLATE CXV.

Page
632

Figs. 1-5. *FREYELLA DIMORPHÀ*, n. sp.

Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.

Fig. 3. Profile view in outline; two-thirds of natural size.

Fig. 4. A portion of the abactinal surface of an ovarian region; magnified 10 diameters.

Fig. 5. Adambulacral plates; magnified 3 diameters.

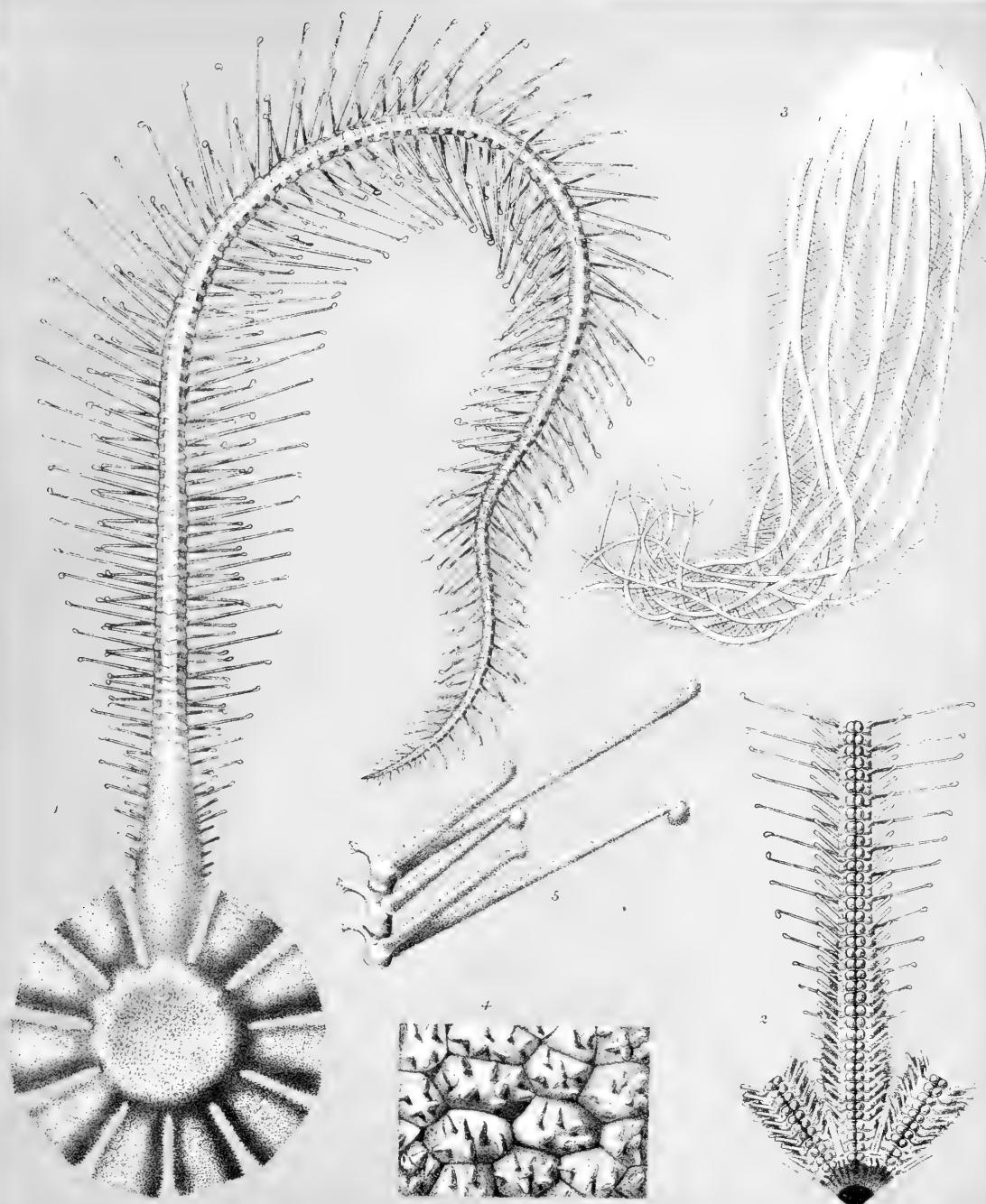


PLATE CXVI.

PLATE CXVI.

	Page
Figs. 1-3. <i>FREYELLA REMEX</i> , n. sp.	635

Fig. 1. Abactinal aspect; natural size.

Fig. 2. Abactinal aspect of a portion of a ray; magnified 3 diameters.

Fig. 3. Actinal aspect of a portion of a ray; magnified 5 diameters.

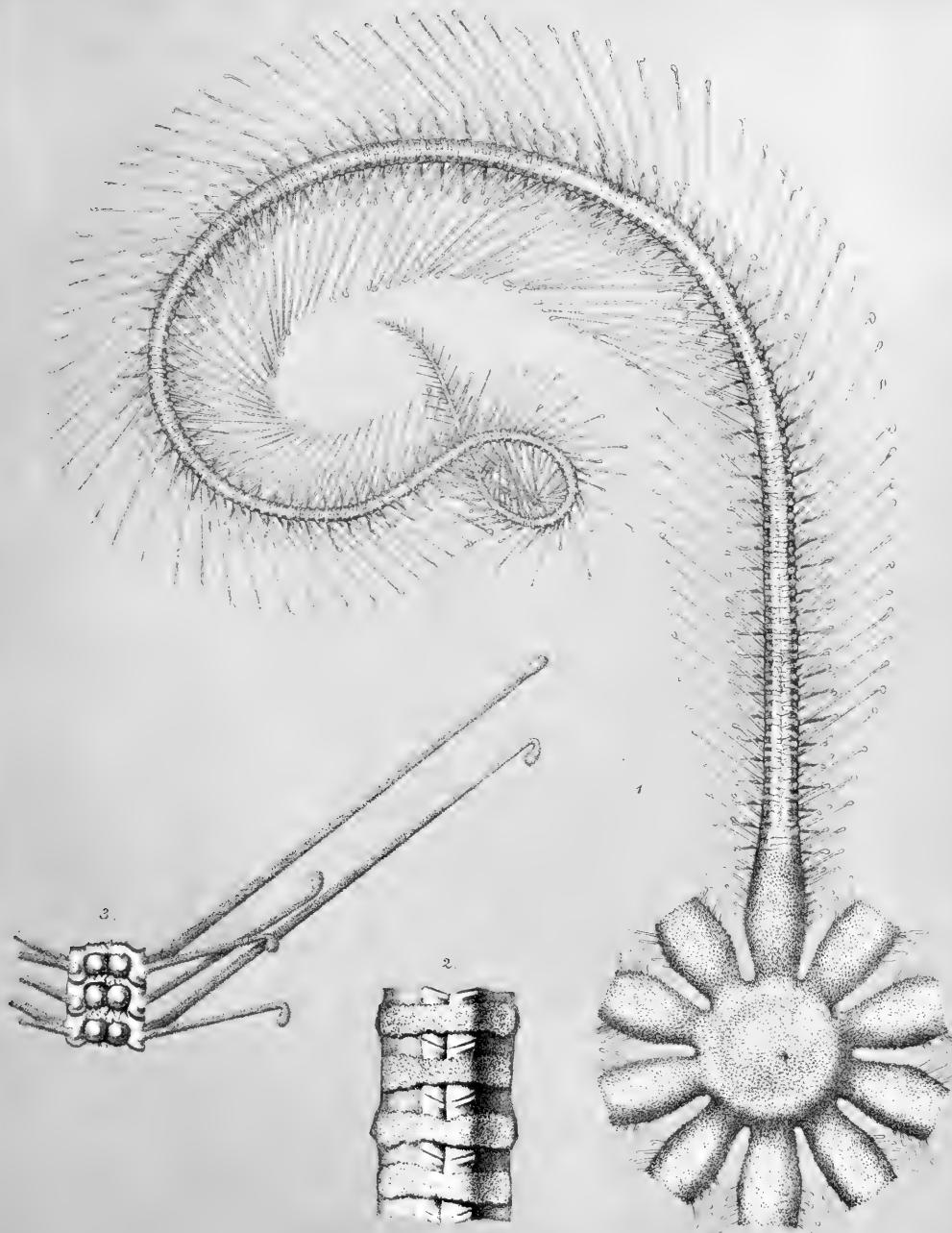
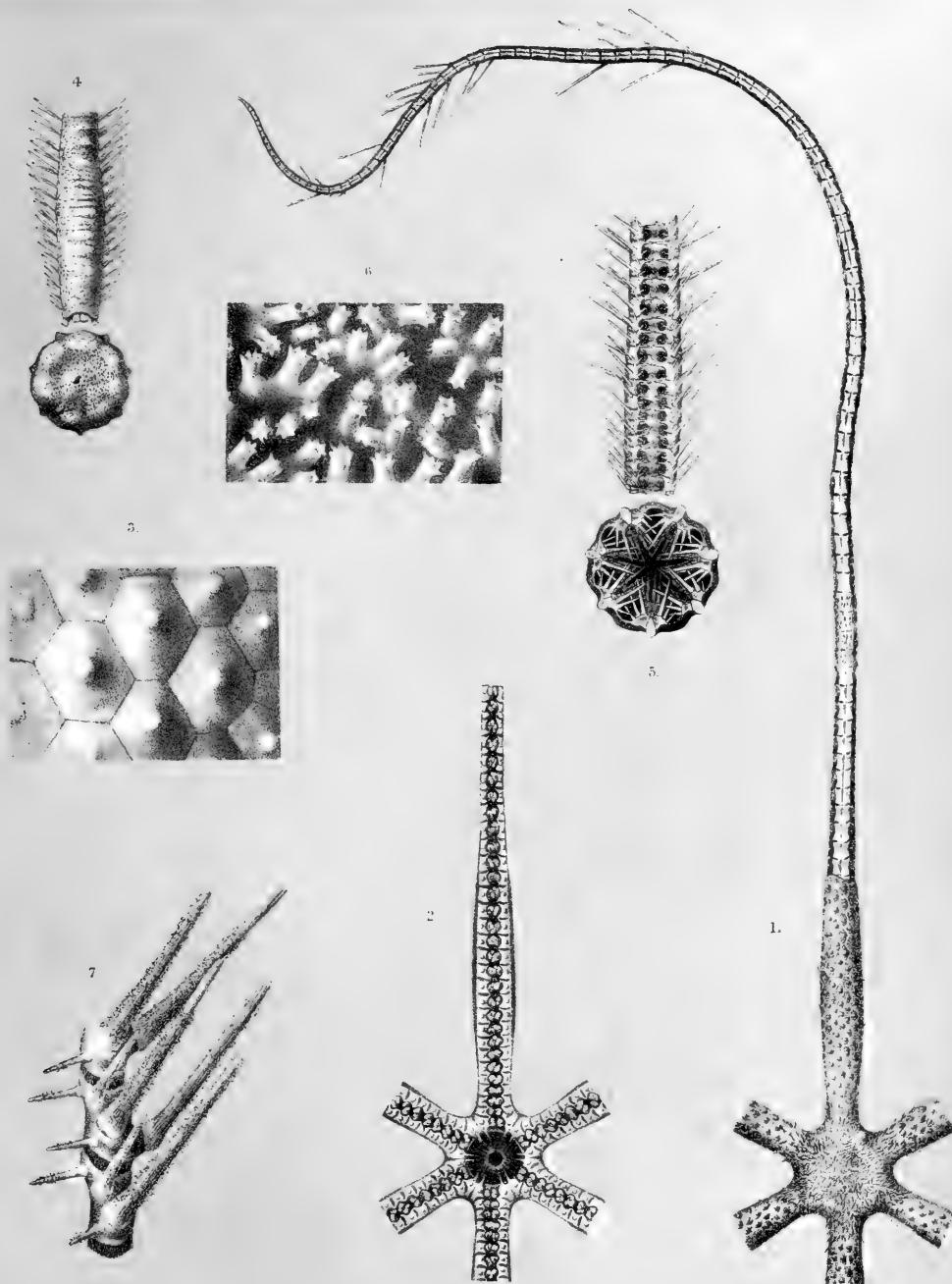


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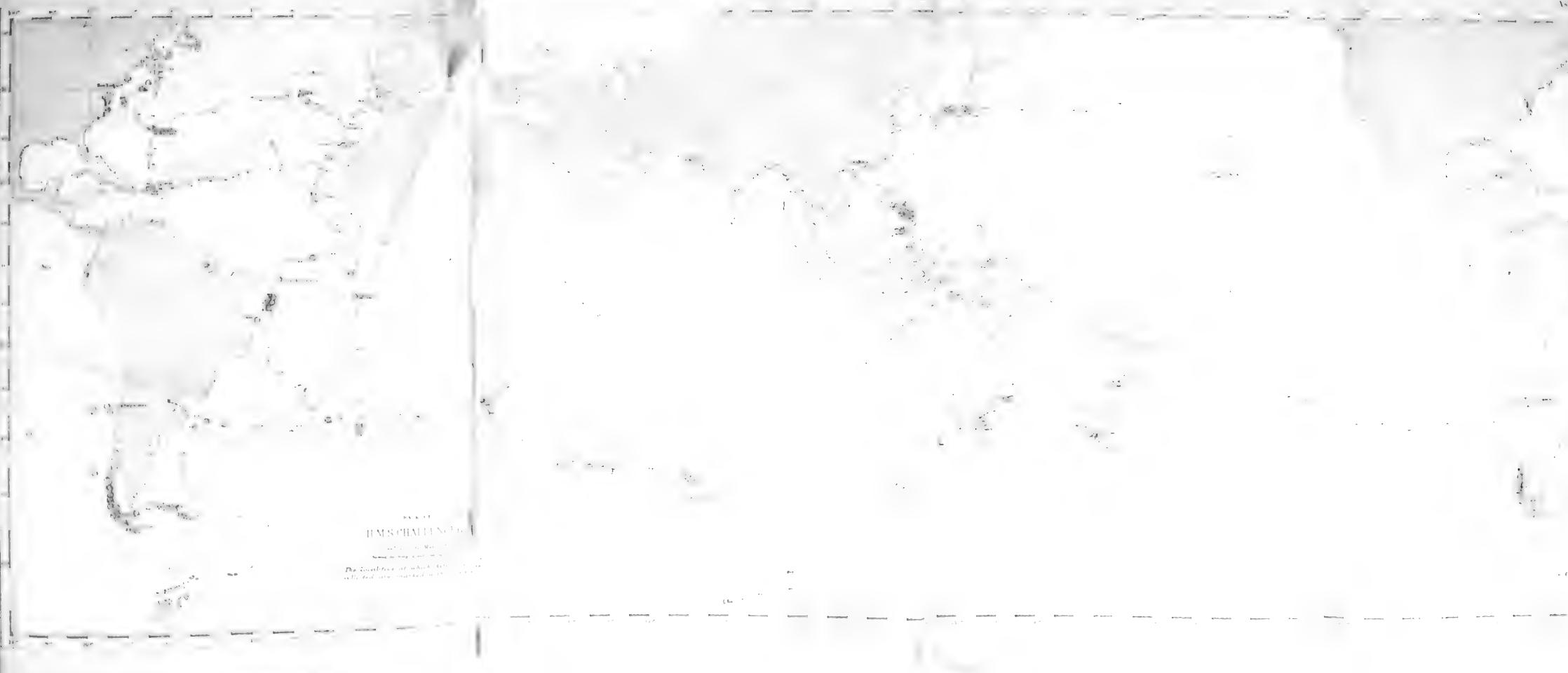
PLATE CXVII.

	Page
Figs. 1-3. <i>FREYELLA TUBERCULATA</i> , n. sp.	638
Fig. 1. Abactinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 2. Actinal aspect; magnified $1\frac{1}{2}$ diameters.	
Fig. 3. A portion of the abactinal surface of an ovarial region; magnified 12 diameters.	

	Page
Figs. 4-7. <i>COLPASTER SCUTIGERULA</i> , n. sp.	648
Fig. 4. Abactinal aspect of a portion of a ray and the disk; magnified $1\frac{1}{2}$ diameters.	
Fig. 5. Actinal aspect of a portion of a ray and the disk; magnified 2 diameters.	
Fig. 6. A portion of the abactinal surface of the disk; magnified 20 diameters.	
Fig. 7. Adamambulacral plates; magnified 10 diameters.	



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